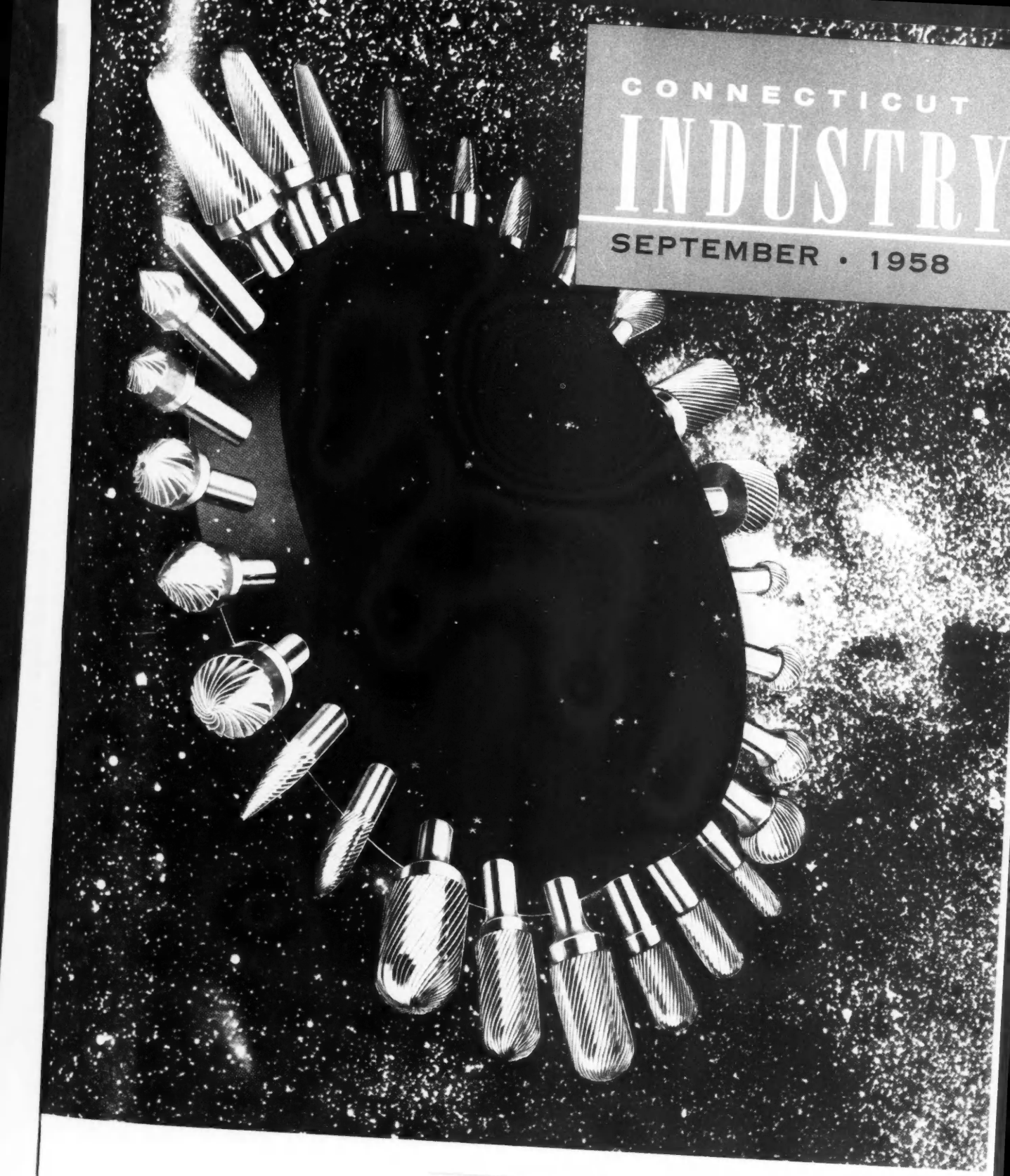

CONNECTICUT

INDUSTRY

SEPTEMBER • 1958

CARBIDE AND

THE ATRAX COMPANY Page 4

Out-of-town telephone calls get there first, get things done ...profitably

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THE SOUTHERN NEW ENGLAND **TELEPHONE** COMPANY

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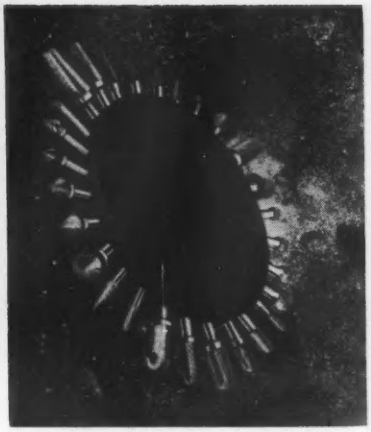
VOLUME 36 NUMBER 9



THIS MONTH'S photo is an artist's conception of progress in the manufacture of Atrax solid carbide tooling. The space station treatment is superimposed against a telescopic background photo through the courtesy of Yerkes Observatory, Williams Bay, Wisconsin.

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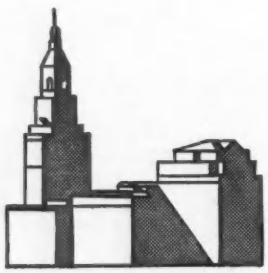

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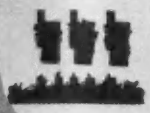

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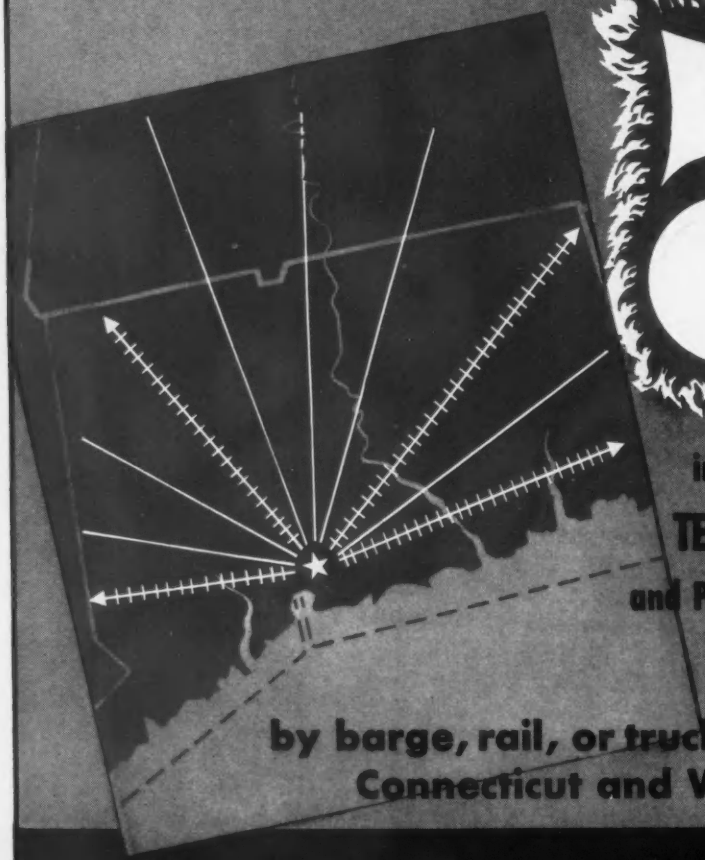

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LABOR'S "VICTORIES"?

By DAVID LAWRENCE

♦ JUST a few years ago this writer was dining in the restaurant of the House of Commons in London with Aneurin Bevan, the British Labor Party leader, and some of his associates. The conversation turned to the American system of "free competition." Mr. Bevan cynically remarked that he didn't think we really had any such thing in the United States. Nor did he believe in free competition. Instead, he favored monopolies, and said we had them in America but, unfortunately, they were controlled by private persons instead of by the Government. That's why he argued for "nationalization" of big industries.

This incident came to mind last week as the newspapers reported the alarm of certain members of Congress over the recent rise in steel prices. There were the customary suggestions on Capitol Hill that "there ought to be an investigation." But, as usual, almost everybody forgets quickly what starts the price rises and what are the motivating influences in the making of prices in America today.

The truth is that, because of industry-wide bargaining and the tremendous power wielded by national labor unions, a battle is being waged between Big Unionism and Big Business that concerns the future of our whole economy—from automobiles to kitchens. The public is the innocent bystander. The people as a whole suffer because the Congress hasn't the courage to tackle Big Unionism. That's perhaps because too many millions of dollars of campaign funds come from the unions to elect the Democratic majority and to infiltrate the so-called "liberal" groups in the Republican party.

So monopolies grow, and feeble cries arise here and there for wage and price control. It is a logical demand, of course, but, unless the political power of Big Unionism is curbed, there is little chance that any governmental board or commission would order the fixing of equitable rates of wages and prices.

The biggest single fact about the steel industry today is conveniently overlooked by the demagogues in Congress. It is that labor costs are skyrocketing and no curb is being placed upon them.

It is pertinent today to re-read an interview in the June 7, 1957, issue of this magazine with Joseph L. Block of Chicago, President of the Inland Steel Company. He was asked: If labor keeps demanding higher wages, and prices keep on going up, where will the spiral end? He answered:

"I wish I knew. I am not as concerned about the spiral per se as about the relationship. If you had everything in proper balance—which you don't—then you could say that labor advances could go up directly in proportion to productivity without ever raising the price again. But you haven't got that.

"Your labor costs have gone up substantially more than your steel prices, with the result that steel prices are not adequate for the new costs—the costs of new equipment and replacement."

If productivity of labor doesn't keep pace with wage increases, then the companies must build new plants and seek new equipment, technologically more efficient, so as to produce steel at lower and lower costs.

But where are the billions of dollars coming from to invest in new plant and equipment? Only from investors who see adequate earnings and favorable dividends. That's the basis of the system of private enterprise.

As long, however, as there is a monopoly power to fix labor costs through industry-wide bargaining, the investor will be hesitant, and sooner or later the larger and more successful of the steel companies will gobble up their weaker high-cost competitors.

The recent price rises in steel offset only a part of the increased costs that are coming, especially in the purchase of raw materials and services. The larger companies, with their more efficient plants and their own sources of supply, are able to absorb a bigger proportion of the increased wages than their non-integrated competitors can. Yet wage rates apply uniformly.

Do not the labor leaders realize that their monopolies in all the big industries are driving us headlong into "nationalization" and a state-controlled economy? Labor will not like such a result any more than management will, but the union leaders are today overstepping the bounds of common sense, just as irresponsible officers of corporations used to do before the antitrust laws were adopted to curb excesses.

The day the Congress of the United States gave labor unions immunity from our antitrust laws, the spectre of nationalized industry was raised in America.

Will we, before it is too late, make all monopolies subject to federal laws that forbid restraints of trade and encourage competition? Will we face up to the danger or just drift into economic anarchy, when the "solutions" will inevitably be more drastic?

Union monopolies are winning their biggest victories while Congress, intimidated by labor's power, waits for an informed and aroused public opinion to make itself heard.

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Exterior view of the entrance to the Atrax office. This is the new brick facade portion of the company's recent expansion.

Carbide and The Atrax Company

■ SHORTLY after the end of World War II Carl Neiderfringer, now President of the Atrax Company, and Raymond A. Judd, Vice President and Treasurer, made the decision that resulted in the founding and subsequent success of The Atrax Company.

The basement of Carl's home was their first workshop; twenty ⅛" standard solid carbide burs, their first standard products.

Since then, the Atrax Company has been so involved with the development, growth and eventual general industrial use of Carbide, that the history of Carbide acceptance is virtually the history of the Atrax Company. The foresight of Carl and Ray, recognizing that carbide was a material with tremendous cutting tool possibilities, helped materially to bring about many of the present day uses for carbide. Because of its imagination and inherent engineering ingenuity, The Atrax Company is said to be the world's largest producer of precision ground solid carbide tools, burs, reamers, end mills and special tools.

Nature of Carbide

Carbide is a man-made metal. It is the hardest material known to man, with the exception of diamonds. The initial development of Carbide occurred in Germany over 30 years ago. However, it remained almost unknown to the metal cutting industry until the outbreak of World War II. During the war it was recognized that carbide had many strategic uses . . . but Carbide was manufactured from Tungsten, with Cobalt usually used as a binder. Both were critical war materials. Another deterrent to the immediate widespread use of Carbide was its extreme hardness and the fact that it could be cut only with diamonds—another vital war necessity.

After World War II, development of modern carbide tools began in earnest. The founders of the Atrax Company were among the first to recognize the virtually unlimited potential of carbide as an industrial necessity. It was expensive, and at that time, the diamonds consumed in grinding

Carl Neiderfringer, president, is shown in his new o

Ray Judd, vice president and treasurer of the At Company.

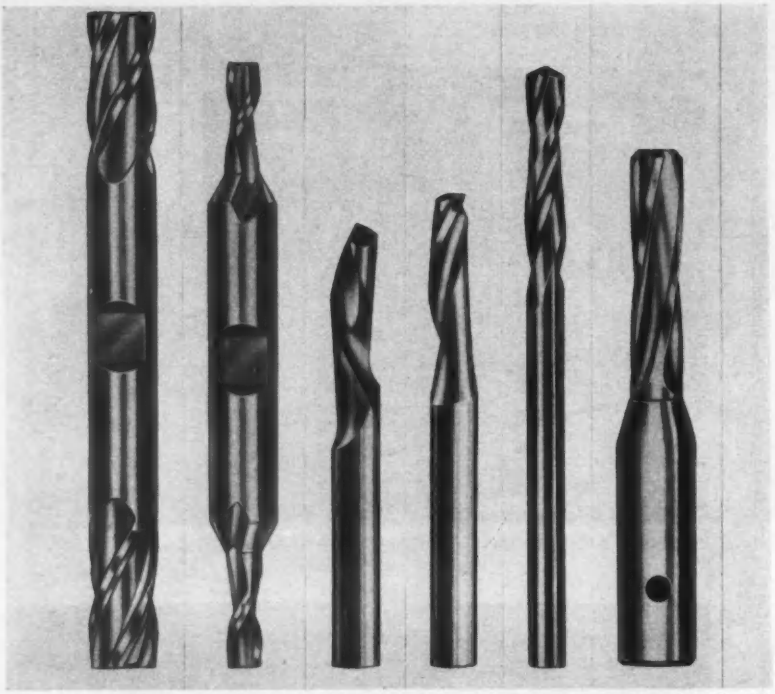
Executive reception room, a part of the new Atrax office expansion.

Part of the Atrax office staff is shown at work in their new office.

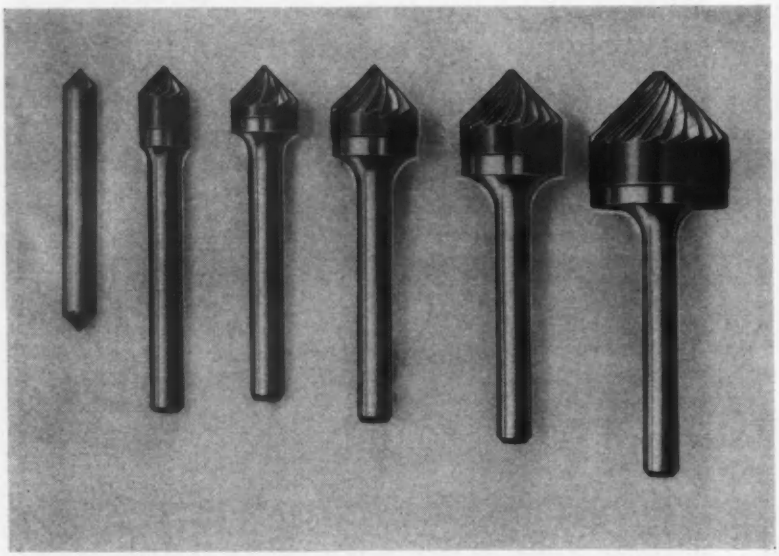
This is the company's expanded engineering department.

Battery of fully automatic, precision Solid Carbide Bur Grinders, designed by the company for their own use.

Cafeteria is a new addition to the growing Atrax employee facilities.



Diamond hard Atrax precision ground solid carbide tools. Left to right, double end mills, routers, drill and reamer.



Series of spiral flute solid carbide Atrax Burs.

made the price of finished carbide tools prohibitive.

Grinding Semi-automatically

The first major undertaking of this new company was to explore the possibilities of grinding Carbide Burs semi-automatically.

Carbide tools had always been ground manually by holding the carbide blank against a revolving diamond wheel. Many manufacturers still use this method today. However, a great degree of individual skill, as well as time, was required to grind flutes using this free hand technique. It took months to train a good bur maker, and weeks to find out whether a trainee had the skill for the job.

Carl and Ray knew the only method of minimizing this problem was to develop a machine which had a semi-automatic action—hand fed, but with cams to provide the complex motions required to grind and space multiple solid carbide bur flutes accurately.

After months of research and failure, skill and determination finally produced such a machine—the first of its kind. The future of the struggling company began to look brighter almost immediately.

Other major problems—high cost of machining Carbide, more efficient tool design, creation of the first sales organization and many others—were tackled and solved in order.

Atrax today, in its manufacture of Solid Carbide Tools, consumes nearly a ton of Carbide a month—over a quarter of a million dollars worth of diamond wheels, approximately 50,000 carats of industrial type diamonds a year. These facts attest to the success the Atrax organization has attained in designing, redesigning, proving and improving solid carbide tooling—together with constant aggressive improvement in manufacturing techniques to continually lower the cost of this diamond-hard, superior-performance tooling.

Customer Service Stressed

The objective of product and manufacturing improvement was, and still is, greater service to the metalworking industry. As Atrax became recognized as a leading manufacturer in its field, Carl and Ray realized that prosperity stems directly from an understanding of customers and customers' problems. In fact, many of the new Atrax tooling innovations have been a direct result of this manufacturer-customer liaison.

With the advent of the age of speed, jets, rockets, missiles, and high speed machinery have placed higher stress loads on conventional materials. New metals and alloys with considerably higher heat resistance have had to be developed. Most of these materials, because of their hardness, presented unsolved machining problems. Increased production was a recurring problem and these hard-to-machine materials had to be cut accurately, and at the same time, faster to keep up with growing demands of industry. Today, it can be safely said that the high powered, trouble-free car you are driving is, in part, a result of advances in the performance, increased production, and the economy of carbide tooling.

Machining of many high temperature alloys in rockets, missiles, and many startling future developments that are only imagined today, is possible only because of current progress in carbide cutting tools.

Automatic Bur Grinder Developed

Progress in the production of Solid Carbide Burs points up one of the most recent exclusive developments by Atrax engineers. Faced with the need for greatly increased productivity, about three years ago Atrax engineers embarked on a design program to de-

(Continued on page 32)

By KENNETH VAN DYCK, ASID*

The Industrial Designer:

Economizer and Sales Builder

Mr. Van Dyck, author of this article, is a graduate of the Carnegie Institute of Technology, where he majored in Physics and Art. He holds over 40 mechanical and design patents. His company, Van Dyck Associates, is employed by companies throughout the East including several in Connecticut and Massachusetts.

■ "CONSUMER REBELLION" is the key to the recession of 1958. This rebellion is an emotional groundswell against the kind and price of products the public is asked to buy. When President Eisenhower says: "Buy," the consumer says: "Should I part with my hard-earned cash for a product that is over-priced?" The reversal of today's recession depends on a reversal of attitude. The buying public must regain its confidence in the manufacturer. To regain this confidence, the manufacturer must give the public products of better quality, and products that are more attractive than ever before. To meet the demands of today's truly sophisticated customers, the manufacturer is more cost-conscious than he has been in twenty years. The proper use of the special talents of the industrial designer can go far towards solving this dilemma.

There is a method of using industrial design (product styling) which has saved again and again countless hours of time for busy executives, engineers, and sales personnel and thousands of dollars in engineering expense. It is basic and simple and it works.

The industrial designer should be not only an artist, concerned with the aesthetics of good design, but also he must have a firm engineering background. In the economy of 1958, the designer should think of himself as an "industrial economizer." Certainly he is employed to improve the appearance, convenience and usefulness of a given product, but his main emphasis

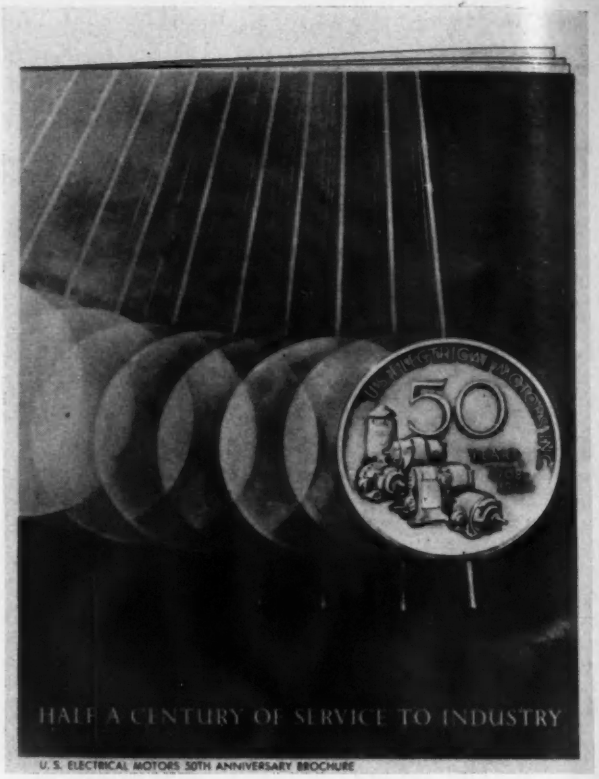
*American Society of Industrial Designers.

(Continued on page 51)

The industrial designers, the sales manager, the chief engineer and management study detailed sketches over the conference table to discuss, retain and eliminate ideas and to finally decide just how a given product will be manufactured and merchandised.

The industrial designer and the engineer must go right to the machine. Here they discuss design of a given part. Only in this way is the industrial designer able to suggest designs which are practical.

U.S. Electrical Motors, Inc. Observes Golden Anniversary

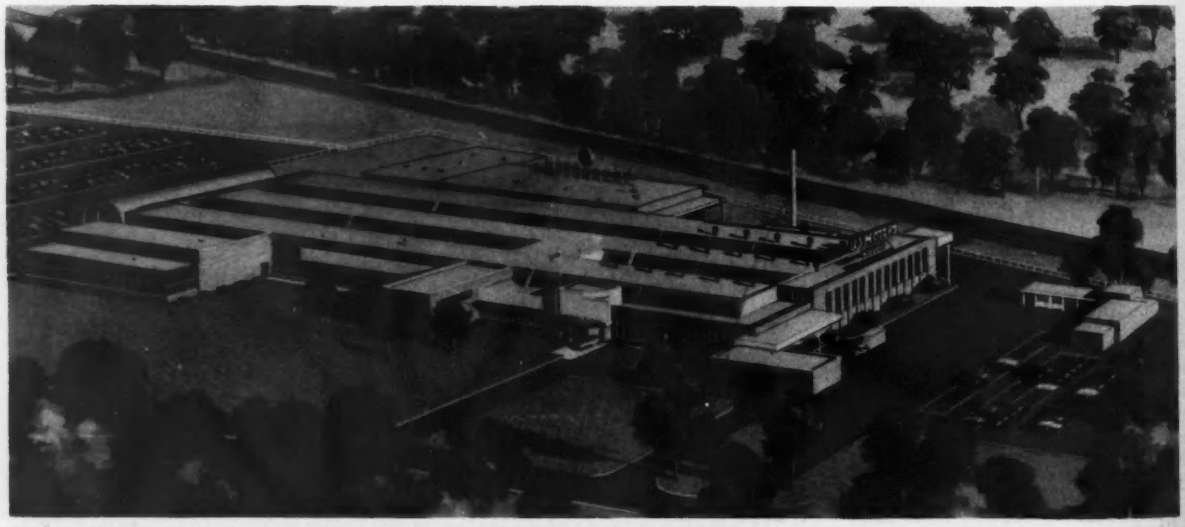


U. S. ELECTRICAL MOTORS 50TH ANNIVERSARY BROCHURE

■ HALF a century of growth—from a small ground-floor location in Los Angeles to a nationwide and international manufacturing and sales organization—is being celebrated by U. S. Electrical Motors Inc. The Company's Connecticut plant, pictured on this page, was opened in Milford in 1940.

The Golden Anniversary observance consists of a year-long series of events and announcements, beginning with the issuance last spring of a full-color 50th Anniversary brochure detailing important developments in U. S. Electrical Motors history, and the carrying of a special Golden Anniversary Medallion in all the company's advertising. The gold medallion has been imprinted upon the company's stationery, salesmen's calling cards, and sales literature. A two-page full color insert advertisement marking the 50th Anniversary is scheduled to appear in leading trade journals reaching the design, production management, and chemical facets of industry.

The theme of the observance is "Half a Century of Service to Industry," with a full-line promotion of all the various U. S. motors—particularly the five motors of the company's major product line: U. S. Verticlosed Motors to serve industry, agriculture, and municipalities; U. S. Varidrive Motors to provide variable speeds in a compact, self-con-



Complete Atlantic Coast manufacturing facilities were established by U. S. Electrical Motors, Inc. in 1940 at Milford, Conn., to meet the requirements of the heavy industrial area of the New England states. Headquarters for the Eastern Sales Division are located here.

tained unit; U. S. Totally-Enclosed and Explosion-Proof Motors to withstand rough usage and to provide safety in hazardous fume or dust situations; U. S. Uniclosed Motors to give long, trouble-free operation for all usual needs, and U. S. Syncrogear Motors to provide compact, internally-geared motors for speed reduction.

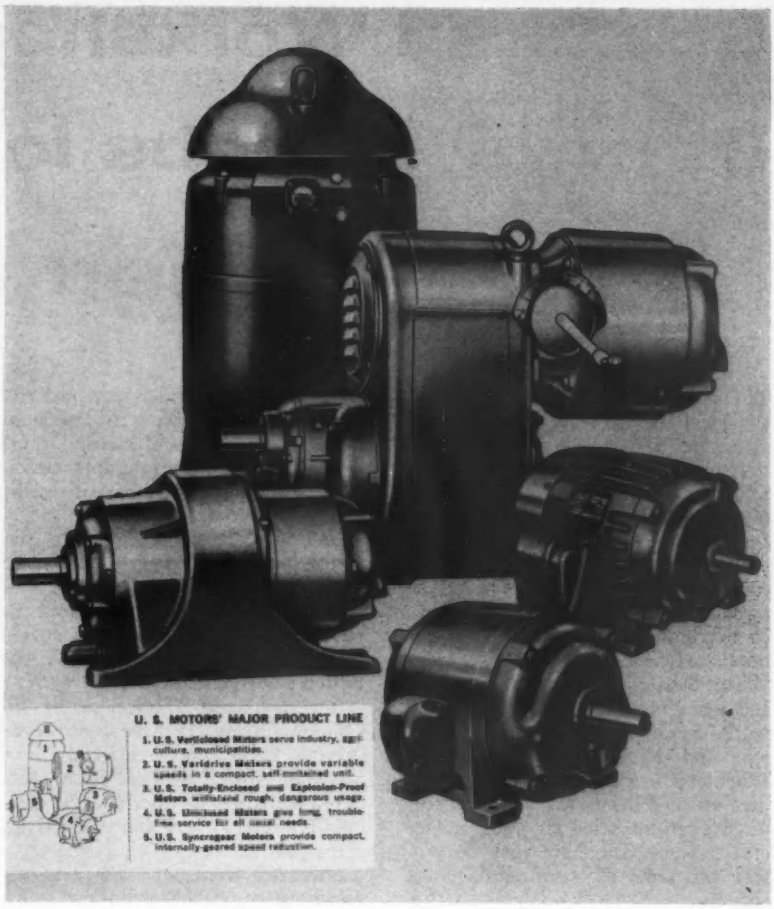
According to the company's official announcement inaugurating its 50th Anniversary observance: "Every successful institution has a standard of merit toward which it strives—a plan of service precedent to profits. At the half-century mark it is appropriate to reflect upon the philosophy and principles which underlie the achievements of U. S. Electrical Motors Inc. Its growth from simple beginnings to an important place in industry was not unguided, but rather the result of a deliberate plan based on a concept of product value. Product value is decided by customer judgment of quality, performance and service. It is on the basis of that customer judgment that the company has grown."

Founded in 1908 in a small storefront plant on East Third Street in Los Angeles, the company became a pioneer in electrical motor construction early in its career. In 1914 it developed riveted frame construction for the improved production of the sleeve bearing motors that were in use at that time throughout "electrified" industries. In 1920, it began the normalizing of motor castings to prevent stresses and warp, a process for the maintenance of precision which many cost-conscious motor manufacturers still omit.

Today the company has six major plants and facilities located coast-to-coast—five in the United States and one in Mexico—plus offices in all principal cities to service its far-flung sales and distribution organization. It maintains its own fleet of huge transcontinental trucks and trailers to speed motors from plants to distribution centers.

Thus far in 1958, the U. S. Motors achievement announced in celebration of its Golden Year, is an assortment of new Packaged Controlled Speed Systems, consisting of pre-engineered automatic variable speed systems developed for a wide variety of specific industrial applications. These packaged systems are for uses widespread throughout industry, and come fully instrumented and ready to plug in for the automation of such devices as conveyors, batch-mixers, lathes, grinders, drill-presses, proportioning machinery, dryers, rewinds, web systems, printing presses, rolling mills, and others. The processes involved are automated by sensing a selected variable such as liquid level, pressure, rewind tension, speed, load, position, temperature, flow, or humidity.

Until 1924 electric motors required cumbersome and complex starting devices. In that year, U. S. introduced the first motors employing the autostart principle that eliminated the need for compensators. For the first time, motors could be started immediately just by pushing a button. Again, this U. S. development became standard in the motor industry.


U. S. MOTORS' MAJOR PRODUCT LINE
1. U. S. Verticlosed Motors serve industry, agriculture, municipalities.
2. U. S. Varidrive Motors provide variable speeds in a compact, self-contained unit.
3. U. S. Totally-Enclosed and Explosion-Proof Motors withstand rough, dangerous usage.
4. U. S. Uniclosed Motors give long, trouble-free service for all usual needs.
5. U. S. Syncrogear Motors provide compact, internally-geared speed reduction.

U. S. Electrical Motors maintains its own fleet of transcontinental trucks and trailers to speed motors from plant to distribution centers.

(Continued on page 55)

Sheltered Workshops: Doorway to Jobs for Disabled

By MISS JUNE SOKOLOV, *Executive Director*
Hartford Rehabilitation Center

■ THE Connecticut Society for Crippled Children and Adults, Inc., your Easter Seal agency, exists to serve Connecticut's handicapped citizens. Five rehabilitation centers in Hartford, New Haven, Waterbury, Bridgeport and Stamford and associated sheltered workshops in four of these areas offer treatment and training programs designed to restore the disabled individual to maximum physical and socio-economic independence.

The Salvation Army and Goodwill Industries also maintain sheltered workshops in various parts of Connecticut and there is an independent Workshop in Bridgeport. These facilities are not associated with comprehensive rehabilitation programs and/or medical supervision but they do provide programs of work for disabled persons.

As is often the case, service to the individual results in service to the community. It is widely accepted that men who are idle tend to deteriorate physically, morally and socially. Work is the most effective antidote against such inroads; it safeguards citizenship and participation in the social fabric. People who are made helpless by misfortune impose a double burden on society; they can no longer contribute productively and they are an economic liability. The result is a drain on our resources and an addition to the liabilities of a community.

The Sheltered Workshops of the Connecticut Society have been developed as a measure to meet the dual challenge of the disabled individual's desire and right to work and the community's need to have him productively employed.

Sheltered workshops are generally voluntary, non-profit institutions which provide a modified work-setting where the disabled person may find remunerative, rehabilitating activity. In such a setting, it is possible to provide productive, graduated work under medical and social care and supervision, and to establish a favorable milieu for physical and emotional restoration and hardening under professional observation and guidance.

Four major groups of handicapped people profit from the services of a sheltered workshop. These include:

(a) People with limited work experience or whose occupational background is so far past that work skills and habits have been lost.

(b) People who require added work tolerance, evaluation or training in order to enable them to compete in regular industry.

(c) People who are unacceptable to competitive industry for specific social, physical or psycho-

(Continued on page 42)

Patients at the Industrial Workshop punch out lapel tags and attach pins in assembly line fashion for Pratt & Whitney's "4 in 1 Drive." Job training will open future avenues of employment for many of these patients at the Hartford Rehabilitation Center. (Left) Although this patient's disability is in his legs, his hands are firm, accurate and fast as he performs a burring operation.

No Room For Snobbishness

By DOUGLAS M. FELLOWS, *Administrative Director*
Ward School of Electronics, Hartford

DOUGLAS M. FELLOWS

In this article Mr. Fellows "pinpoints" some serious educational problems that must be solved by the cooperative efforts of educators and management if our nation is to successfully compete in the intense competitive struggle with Communist Russia in the years ahead.

■ FOR a nation dedicated to the principal, "all men are created equal", to sell its technicians short seems impossible to believe, but this, consciously or unconsciously, is what we are doing in these United States of America.

One grasps the overtones whenever the technician is mentioned in manpower conferences, educational circles or professional periodicals. It is echoed in definitions calling the technician "semi-professional, a junior engineer, engineering aide or engineering assistant." It is emphasized in explaining his education away as sub-professional, terminal, limited or of sub-degree level. It is blatantly expressed in giving negative and apologetic reasons for his choice of technical training as "inability to enter engineering colleges, need to complete training in two years or limited intellectual capacity." The head of one institute offering both engineer and technician training went so far as to state at an engineering conference he selected candidates for the engineering program from those with an IQ over 120, technicians from the 110 to 120 bracket.

It is as though a new social leprosy were rampant, as though we had precluded only one form of education, and that form alone, proceeding along traditional lines, was pure and acceptable.

Graduate technicians are frequently told advancement is limited and they must ultimately switch to engineering careers if they wish to progress beyond set occupational levels. Recently the chief project engineer of one company reported weeks of struggle to change policy so that the two technicians whose skills had made the project completion possible could stay with the product they had helped produce as development engineers without the necessity of obtaining an engineering degree.

Factually there is a limit of attainment facing each of us, regardless of profession, but if social experience teaches anything it is the limitless expanse of opportunity in each and every way of life and for the different types of individuals making up our civilization.

Communist Russia has recognized this fact by giving equal prestige to many types of training. The technical field is classified as professional, according to reports recently given at the New England Conference on Effective Utilization of Engineering and Scientific Manpower. Technicians are not held subordinate but their profession is considered as equal to law, medicine, and engineering and opportunity for advancement is consequently made possible through individual technical talents. The result, as reported by the Hearst survey and others is an impressive total of between 160,000 to 180,000 technicians graduating annually against 35,000 in the United States.

The same conference heard we are matching the number of engineering graduates, but that the efficiency of the engineering team is being hampered by the lack of qualified technicians.

Even this comforting thought is being challenged from Management Research in a study which states Russia plans to increase the output of graduate engineers more than 40 per cent by 1960. In the United States the figures are complicated by lack of formula due to the fact industrialists have been forced to recruit technical manpower from engineering colleges, our own engineering force being reduced as graduates from our softer engineering program have taken jobs in sales, technical work, administration and management.

Balance Needed

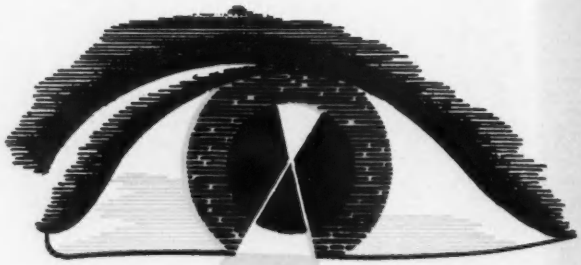
The concept of a proper balance of engineers and technicians is varied. General Electric, which has long recognized the problem, reports a ratio of one to one if draftsmen are included as a general balance. However in some departments two technicians are used to each engineer, while in electronics the ratio develops eight technicians to one engineer.

Industries visited in New England for the ASEE National Survey of Technical Institute Education indicated about as many views as there were persons interviewed. One company made no distinction between engineers and technicians. Another produced most of its engineers by in-plant training coupled with theoretical training made possible by the local school system. Still another company had not classified technicians as such; anyone using skills of intellectual nature beyond those of the craftsman were classified as engineers, without recourse to standards set by formal education. All sought better definitions for both engineers and technicians, even though they felt this impossible due to overlapping creative abilities.

Room for Differentiation Without Condescension

Here at the Ward School we have accepted a general differentiation, by saying the engineer is concerned mainly with the "why," the technician with the "how," that the engineer (like the architect) creates the overall plan, but that the technician (like the builder) converts the plan into reality.

(Continued on page 44)



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News Forum

This department includes a digest of news and comment about Connecticut industry of interest to management and others desiring to follow industrial news and trends.

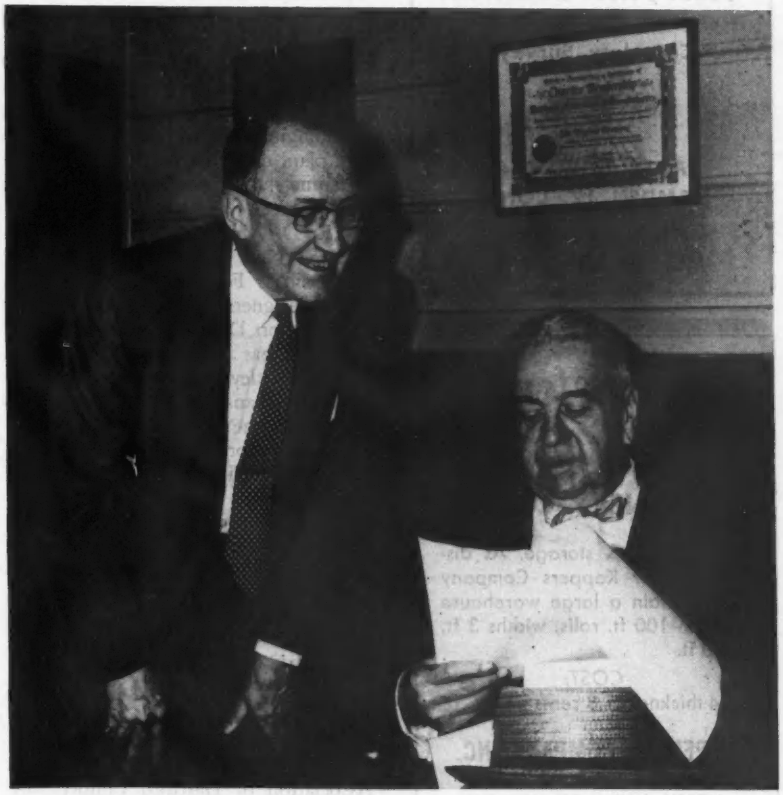
♦ STARR H. BARNUM, chairman of the board of The Bigelow Company, boiler manufacturer of New Haven, has just completed 50 years of service with the company. A native of New Haven, Starr Barnum began his work for the Bigelow Company as a boilermaker after graduating from Yale University, working nine hours a day, six days a week, for $10 per week. He worked his way up through the various departments, concentrating on sales for a number of years.

He succeeded his father, George Starr Barnum, as president in 1939. The Barnum's have been in the management end of the 125-year-old company since 1871, when Mr. Barnum's father, George S. Barnum, started his 72 year employment record. Starr H. Barnum, 3rd is now vice president.

Mr. Barnum also celebrated the 50th anniversary of his graduation from Yale in July. As chairman of this year's reunion of his class of 1908, he greeted some 75 of his former classmates, some coming from points as remote as London and Honolulu.

♦ QUANTUM, INCORPORATED, Wallingford, has recently announced plans for the construction of a modern radioisotopes laboratory facility at its Lufbery Avenue address. The development of the laboratory, a part of a new division, is an outgrowth of Quantum's irradiation experience in the investigation of polymerization and radiation damage testing of organic and inorganic elastomers and plastics materials.

Dr. R. F. Lumb, director of the Radioisotopes Division, lists the main investigative areas of the laboratory as being in the fields of labeled com-



Starr H. Barnum, chairman of the board of The Bigelow Company, New Haven, this year celebrates his 50th anniversary with the company. He is shown on the right here, with Paul M. Fleming, company president.

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pounds, tracer technology, industrial wear problems, autoradiography, unique thickness and density measurements, quality control instrumentation, and research in the fluorescent properties of certain chemical radioisotopes.

The basic purpose of the division, according to Dr. C. M. Doede, president of Quantum, is to provide a service for New England industry in the utilization of the tremendous versatility of radioisotopes to solve problems rapidly and efficiently. The laboratory will encompass approximately 600 square feet of floor space with division of the area into the main laboratory, a biological section for small animal and plant nutrition studies, and a small machine shop to service the laboratory.

♦ R. D. ANDERSON has been appointed New England sales manager of Business Forms, Inc., West Hartford, designers and manufacturers of Needle/Sort Data Processing cards and forms, it has been announced by W. Mason Beekley, vice president and general sales manager. Mr. Anderson has been with the Royal-McBee Corporation as a representative of the Data Processing Division, in Worcester, Mass.

The appointment of Mr. Anderson is part of an expanded program to stimulate and meet the increased sales which the company is experiencing, according to Mr. Beekley.

♦ BOHDAN BALKO, a graduate of Glastonbury High School, has been named recipient of the Edward M. Flannery Scholarship at Trinity College, awarded by the Purchasing Agents Association of Hartford County.

The scholarship, awarded for the first time this year, has been established in recognition of the late Mr. Flannery's long interested and active participation in the Purchasing Agents group and his awareness of the difficulties faced by young people in acquiring higher education.

♦ A NEW TWO-COLOR technical brochure describing Formweld, a metallic welded bellows which has broad applications in the aviation, missile, instrumentation, automation and industrial fields, has been prepared by The Bridgeport Thermostat Division of Robertshaw-Fulton Controls Co., Milford.

The new Formweld brochure describes the complete characteristics and specifications of the new welded bellows, details the painstaking and complete testing procedures followed on each unit, and is illustrated with pictures of typical bellows assemblies, as well as drawings showing various plate shapes.

YALE & TOWNE
Declares 281st Dividend
37½¢ a Share

On May 28, 1958, dividend No. 281 of thirty-seven and one-half cents per share was declared by the Board of Directors out of past earnings, payable on July 1, 1958, to stockholders of record at the close of business June 10, 1958.

Wm. H. MATHERS
Vice-President and Secretary

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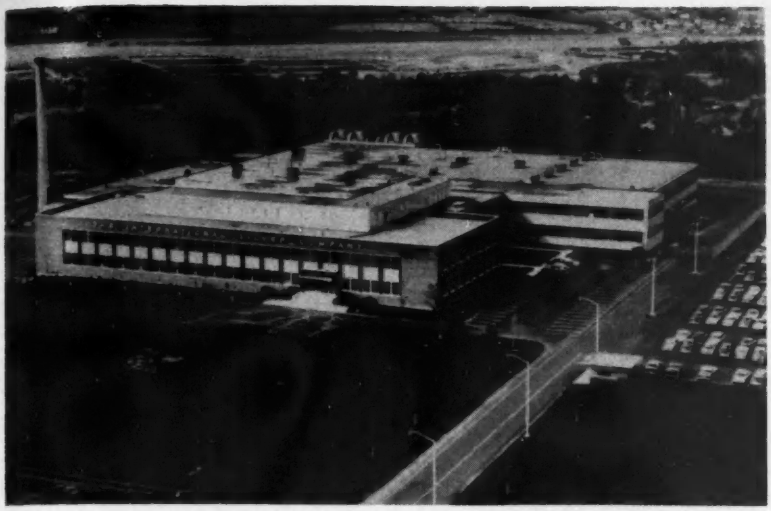

This photograph of International Silver Company's new administration building and Factory E in Meriden should have appeared in connection with the article on the dedication of the building which appeared in the July issue of CONNECTICUT INDUSTRY. A photo of the company's Factory A in Wallingford was used in error.

The brochure points out the higher ceilings on accuracy, temperature, pressure, vibration, corrosion resistance and service life available in Formweld bellows, because any suitable weldable metal can be selected to achieve the strong physical properties and characteristics desired for a given application.

Copies of the brochure are available from Carl F. Ahlheim, sales manager.

♦ UNDERWOOD CORPORATION, manufacturer of business machines and office supplies, has announced the introduction of a new Easy Payment Plan that will enable customers to purchase Underwood typewriters, adding machines and accounting machines on a time payment basis.

David H. Burrell, vice president-marketing, said that under the new

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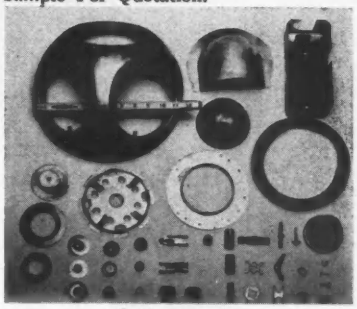

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♦ THE PARKER-HARTFORD CORPORATION, Hartford manufacturer of prototype, experimental and production cams, has announced publication of a new booklet that covers design and functions of two and three dimensional cams, their uses and formulas.

Discussed are such questions as "What is a Three Dimensional Cam?", "Why Use a Three Dimensional Cam?", "Three Dimensional Cam Applications", "Mechanics and Engineering of the Three Dimensional Cam." Illustrated are many of the special three dimensional cams Parker has made for leading companies for conventional and unusual control applications. Copies are available from the company.

♦ ELECTRIC REGULATOR CORPORATION, Norwalk, has announced the publication of a new catalog sheet on their Series 1.050 Precision Filament Voltage Regulators. As stated in the sheet, the regulators, built around the well-known REGOHM, are available to operate from an input of 115 volts plus or minus 10% to provide an output of 6.3V plus or minus 0.10% in various current ranges.

The catalog sheet contains a schematic diagram of a typical series 1.050 unit and a complete discussion of operating principles, explaining the low power loss and stable operation of the regulators. A highlight of the sheet is a description of a very special filament regulator for a Diatron mass spectrometer tube.

♦ HELICOPTERS, hovering at zero ground speed, demonstrated their place in the age of the supersonic missile at Fort Bliss, Texas, recently, as the U. S. Army opened a two-day missile orientation and demonstration for key members of the executive branch of the government, senior military commanders, industry representatives and the press.

The helicopters showed off their battlefield usefulness, not only by transporting large, heavy missiles swiftly from place to place, but by firing their own rockets in a convincing demonstration of ground fire suppression.

Sikorsky Aircraft Division of United Aircraft Corporation, Stratford, was represented by the twin-engine H-37A Mojave, the single-engine H-34A Choctaw, and the single-engine H-19 Chickasaw.

♦ A COMPLETE line of table-type and floor-type horizontal boring, drilling and milling machines equipped with General Electric program controls is being offered by the Lucas Machine Division of the New Britain Machine Company, Cleveland. Machines can be furnished with tracer equipment, numercial positioning equipment (punched tape) or numerical contouring equipment (magnetic tape).

A unique feature of this line is said to be their ability to operate either as fully automatic, program-controlled machines or as standard boring, milling and drilling machines. Change-over from program control to standard control and back again on all models can be accomplished easily in a minimum of time.

♦ A NEW six-page two-color folder on El-Menco Dur-Mica Capacitors has been made available by the Electro Motive Manufacturing Co., Willimantic. The folder actually is a "Reliability Study of Silvered Mica Capacitors," showing how "debugging assures greatest dependability and longest life."

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Data featured includes relationship among the various case sizes and comparison between dipped mica capacitors and molded mica capacitors, the effect of voltage and temperature stress on life, the advantages of "debugging" operations in increasing reliability of mica capacitors.

♦ ONE of the world's most famous ladies now holds court in cleaner, more regal surroundings thanks to the Silent Glow Oil Burner Corp., Hartford. A 300 pound per hour incinerator designed and manufactured by the Hartford firm has been installed at Liberty Island, home of the Statue of Liberty.

The specially planned machine had to satisfy design, installation and performance standards which were at once different and rigorously challenging. Architecturally, the unit had to be so planned that its members in no way interrupted or detracted from a view of the Lady and her surroundings. Specifications required that the installation be completely smokeless and odorless.

Compactly installed in a building only 12 feet high, the Silent Glow incinerator discharges its heat through a stainless steel spray head and ash eliminator enclosed in a cupola at the building's top. The installation is said to make a new mark for large incinerators. To a great extent it destroys the commonly held idea that need for an incinerator presupposes its location in some unsightly, remote part of town, city or company area.

♦ THE FENN MANUFACTURING COMPANY, Newington, has announced facilities for anti-corrosion finishing to aircraft quality and government specifications. These facilities include a large installation for chemical treatment of Dow No. 17 Anodize characterized by excellent paint base qualities and hardness, resistance to corrosion and abrasion. It is applicable to all forms of magnesium alloys, extrusions, forgings, castings, and sheet.

Fenn employs the A.C. method and can supply the Anodize in thickness from 0.0002 to 0.001 electronically gaged by the Dermitron method. The company also has facilities for Chromic Acid Anodizing on aluminum, aircraft quality cadmium plating, black oxide coating on steel, and Parco Luberize.

♦ A NEW Radiator Core Identification Wall Chart has been introduced by the G & O Manufacturing Company, New Haven.

The chart features a thorough listing of information needed by auto radiator repair shops. It lists in easy-to-read form the model and year of motor vehicle, the original equipment radiator number, core dimensions, the num-

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New Press Division Building built by the Fafnir Bearing Company in New Britain demonstrates the wisdom of combining old facilities with new when older buildings are still serviceable. Nearly 100 heavy presses and miscellaneous equipment were transferred to the 33,000 square foot, one-story building shown above, abutting against Fafnir's six-story 50-year-old plant renovated to be used for servicing the new Press Division operation.

ber of tube rows and sizes, the fin count, top and bottom header sizes, type of radiator construction, and the G & O core number.

A special feature of the reference chart is a series of silhouette line drawings which depict types of radiators. Located in the center of the chart, these drawings clarify the identity of the various types of radiator and speed up selection of the right core for replacement and servicing.

♦ BOOTS AIRCRAFT NUT CORPORATION of Norwalk, a leading supplier of nuts and fasteners to the aircraft and missile industry, observed its 20th anniversary recently.

The company was formed in 1938 by Colonel Norman J. Boots who introduced the first all-metal lightweight nut to the aircraft industry. Up until that time there had been only fiber nuts, offering limited reusability and low heat tolerance. The Boots revolutionary all-metal nut gave aviation a lightweight nut with almost infinite reusability plus an ability to withstand temperatures up to 550°F.

♦ PAVING CONTRACTORS and highway engineers from a three-state area met in North Branford recently to watch one of the nation's leading asphalt authorities demonstrate modern paving techniques.

Nearly 200 contractors and road officials from Connecticut, Massachusetts and New York met at The New Haven Trap Rock Company's North Branford plant to see Donald Dagler of the Asphalt Institute's engineering staff direct the actual paving of a large parking area. Mr. Dagler, former head of research for the Pennsylvania State Highway Department, demonstrated new bituminous concrete spreading equipment used for the first time in New England.

Part of a long-range educational program sponsored by New Haven Trap Rock Company, the demonstration was planned to show the newest paving methods and illustrate correct procedures for overcoming on-the-job problems.

♦ THE PROMOTIONS of John F. Burridge to sales manager and Richard E. McCormick to assistant sales manager of Hamilton Standard, division of United Aircraft Corporation, Windsor Locks, have been announced.

Mr. Burridge, who had been assistant

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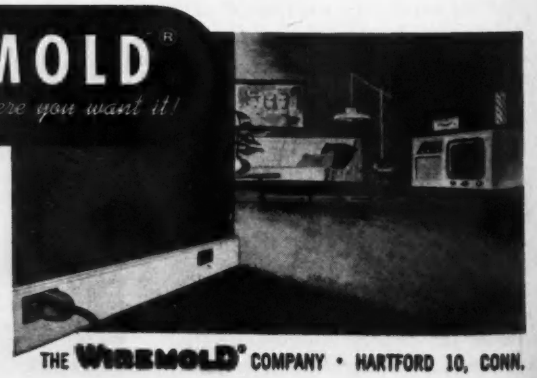

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sales manager since 1956, succeeds William P. Huxley. Mr. Huxley has been named assistant general manager of the newly-created Norden Division of UAC.

Mr. Burridge has held various field service, engineering and sales positions with United Aircraft Service Corporation and Hamilton Standard since 1936.

Mr. McCormick joined Hamilton in 1936. He was named assistant to the sales manager in 1950 and has been in charge of military sales.

♦ CONSOLIDATED DIESEL ELECTRIC CORP., Stamford, has reported receipt by the company's Power Equipment Division of new contracts and increases in previous orders from the United States Army Corps of Engineers, totaling $2,500,000.

M. J. Sullivan, Power Equipment sales manager, said that the units to be furnished under the contracts consist of diesel electric generator sets used to provide precise power to missiles, radar and other electronic equipment.

♦ STANLEY-HUMASON, INC., is the new name for The Humason Mfg. Co., Forestville, a subsidiary of The Stanley Works of New Britain.

The original company, predecessor of the Humason company, began in the early 1800's and made fine wire, clock verges and brass turnings. In 1908, it was incorporated as Peck & Way Mfg. Co., and a year later became Peck & Young Mfg. Co. In 1914 William Humason purchased controlling interest and in 1919, the name was changed to The Humason Mfg. Co. His son, Lawrence C. Humason, joined his father and remained active in the company until his retirement in 1956.

Humason-engineered products fall into the following categories: Screw machine products, all types of coil springs, wire forms, flat springs, light stamping and assembled products, all of which are made to customer specifications. These products find their way into automobiles, household appliances, toys, clocks, electrical and electronic products, clothing, machine tools, business machines, hardware, novelties, office supplies and defense products.

♦ A 36 PERCENT increase in employment during the past year boosted the number of employees at Kaman Aircraft to a record high of 1627 compared to 1195 employees on the payroll a year ago.

Kaman's Hartford area operations account for 1380 employees in shops and offices located in Bloomfield, Hartford, Suffield and Windsor Locks. The

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This is why Liberty Mutual—the company with the largest experience in workmen's compensation service—has developed over the years a forward-looking concept of business insurance which gives you protection in depth. From the start of your Liberty coverage, a wide range of skills and resources can be put to work to help you anticipate and avoid accidents and loss, lessen their impact if they happen and keep future costs down.

In today's business climate, *PROTECTION IN DEPTH* can be more important to you than ever

Today every American businessman—whether he employs 25 people or 25,000—must take a new and careful look at expenses. The protection in depth you get from Liberty can help you trim excess dollars from your insurance costs without sacrificing any of the coverage you need to safeguard the growth of your business.

This kind of protection has enabled Liberty Mutual to set an impressive cost-cutting record. In turn, this has meant steady growth in business written and a large share of "blue-chip" accounts. Because we deal directly, our salesmen have at hand the experience of the entire company to draw on, and they are expected to have the skill to see that it is applied to the problems of any policyholder, large or small. This direct-dealing, mutual form of operation not only helps policyholders control loss, but is also one reason why over the years Liberty has been able to return more than $455 million in dividends to policyholders.

We believe that protection in depth can today lead to significant improvement in your insurance cost picture. We invite you to become acquainted with protection in depth now.

n depth

ice costs today

New look at injuries—new savings. In 64 areas of the country, Liberty Mutual retains leading specialists to check the diagnoses of serious cases and assist treating physicians. Result to policyholders: improved medical results and lower compensation costs.

Test for tiredness. At Liberty Mutual's 86-acre research center, a "worker" goes through his paces so that our scientists can learn to measure human effort and fatigue. The goal: new knowledge of when worker efficiency begins to fall off and a good chance to cut down on late-hour accidents and losses.

Seeing invisible danger. Liberty Mutual's industrial hygienists test a new welding process for toxic or explosive vapors. Result for policyholder: fewer occupational illnesses, a healthier shop environment, a closer control of loss.

Behind *PROTECTION IN DEPTH* is the broad range of Liberty's special skills and resources

The services available to Liberty Mutual policyholders are often broader in scope than most other companies or agencies can offer. Many are routine and offered as a standard part of Liberty's work. A few are Liberty exclusives. All are ready for "trouble shooting"—to crack dangerous or money-wasting problems that any policyholder may have. Here are a few of them and how they can be put to work for you in an insurance program that provides real protection in depth:

23 industrial nurses and nine division medical directors to work with your doctors and nurses to establish health maintenance programs, on and off the job.

Two rehabilitation centers to rebuild the self-respect and social usefulness of seriously injured workers and to speed their return to work.

These Liberty "extras," and the others shown on these pages, all have one goal in common: to give you protection in depth. All of them are available to any policyholder—large or small—who needs them. All of them can be put to work to lower insurance costs.

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ELECTROGRAPHIC CORPORATION

company's new Moosup, Connecticut plant has 217 employees, and there are 30 persons on the research and development staff at the Nuclear Division in Alburquerque, New Mexico.

Kaman manufacturers helicopter subassemblies, and sub-contract parts for missile and aircraft manufacturers in Moosup. The Hartford area plants are devoted to final assembly of helicopters, prototype manufacturing, engineering, and research and development in addition to administrative functions.

♦ ON DISPLAY publicly for the first time at the Wescon Show in Los Angeles last month, the MB Model T996 is one of two new high-performance, wide-band amplifiers recently added to the line of vibration test systems designed and produced by MB Manufacturing Company of New Haven.

Rated at 50 kva and 100 kva continuous output, respectively, with a total plate dissipation of 100 kw and 150 kw, the T996 and T999 amplifiers use design techniques which have resulted in savings in floor space with an increase in output power and improved performance.

♦ THE FIRST PRODUCTION contract for a small U. S. propjet engine has been announced by Lycoming Division, Avco Manufacturing Corporation, Stratford.

The Air Force-Army contract, which is expected to total approximately $6 million, calls for delivery of Lycoming T53-L-3 engines starting in November, 1958. Lycoming has already received a contract for $1.8 million of the amount through Air Materiel Command.

First application of the engine is the Army's new STOL (Short Take-Off and Landing) observation plane, the twin-engine Grumman AO-1 Mohawk.

♦ PERRY W. PRATT, widely known in aviation for his many contributions to flight propulsion, has been elected to the newly-created position of vice president and chief scientist of the United Aircraft Corporation, H. M. Horner, chairman, has announced. He formerly was engineering manager of United's Pratt & Whitney Aircraft division.

In his new assignment, Mr. Pratt will monitor the corporation's forward technical projects in both missiles and manned aircrafts. He will work closely with the engineering and design groups of all the company's divisions, including the new Missiles & Space Systems division now being established by United.

A graduate of Oregon State College's engineering school in 1936, Mr. Pratt

subsequently did graduate work in engineering at New York University and Yale University. He started with Pratt & Whitney Aircraft as a test engineer in 1937 and later held a number of important engineering posts. He was named assistant chief engineer in 1950 and chief engineer in charge of all engineering activities in 1952. He has been engineering manager of United's engine division since September, 1957.

♦ A GRACEFUL NEW SILHOUETTE identifies the newest addition to the complete line of rear-view mirrors produced by the Supersite Corporation of Derby. The forward-looking mount, called after the "Explorer" satellite, captures the modern design of its namesake.

The "Explorer" features Supersite's newest innovation in driving safety, the "Super-visor," a mirror shadow box with knurled interior that minimizes reflected glare, day or night, and affords rear and side traffic "super-vision."

♦ THE BRAZILIAN GOVERNMENT has placed an order for 572 Yale industrial fork lift trucks and 30 ships will transport them this year to South America, it was announced recently by Elmer F. Twyman, vice president of The Yale & Towne Manufacturing Company, Stamford. This is the largest single export order for fork lift trucks ever placed with an American materials handling equipment manufacturer, according to Mr. Twyman.

Purchased with the aid of a loan from the Export-Import Bank, the fleet of Yale industrial trucks will be a major part of the materials handling system in an overall port modernization program being carried out in Brazil.

♦ JOSEPH L. BELL has been named assistant treasurer of The Cornwall & Patterson Company, Bridgeport, a pioneer manufacturer of products made from wire.

Mr. Bell joined Cornwall & Patterson from his position as assistant to the comptroller of Pratt, Read & Co., Ivoryton, parent firm of the Bridgeport company.

Cornwall & Patterson manufactures more than 800 products with the majority of its production centered around screwdriver blades, tool bits and similar hardware items, and metal items for pianos.

♦ THE FORMATION of a third European sales subsidiary, Perkin-Elmer Italiana S.p.A. with headquarters in Milan, has been announced by Perkin-Elmer Corporation, Norwalk.

The subsidiary will handle the sales and service of analytical instruments produced by the company's manufacturing plants here and abroad. Richard S. Perkin, president, commented that the new subsidiary is part of a program to strengthen sales abroad, and that similar steps will be taken in other areas as market conditions warrant.

♦ THE LUX CLOCK Manufacturing Co., Waterbury, has issued a new bulletin No. 165 on their 5840-6060 Stud Mounting Range Timers, the Combination Fully Automatic Range Timer and 1 Hour Electric Minute Minder, and the Electric Clock and 4 Hour Minute Minder.

Photos and descriptions of the lubeless synchronous motor-powered timers are presented. A scale diagram of panel opening details is shown and specifications and optional features are also listed. Copies of the bulletin are available from the company.

♦ HUMPHREY-WILKINSON, INC., North Haven, has announced plans for the construction of a new

CONVENIENCE FOR THE CARRIAGE TRADE

Tot-sized travellers were a real problem for mothers before Chux. And the right package for this Chicopee Mills product was a real problem before Robertson created this new carrier-dispenser carton. It totes like a suitcase, delivers diapers one at a time. The perforated flap tucks in place and diapers are sparkling clean between changes, yet this convenience does not interfere with the carrier feature of the carton.

When your requirements are special, let Robertson's team of design engineers add that extra spark of ingenuity to your packages that can result in increased sales for your products.

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building at their Devine Street location which will increase its production facilities by 30%.

This latest expansion move has been made necessary by a surge of business developing for its new Consumer Products Division "Platch," a plastic patching material that repairs, mends and seals broken, dented or rusted metal auto bodies, plastic toys, wooden furniture, tile tubs, porcelain sinks, aluminum and copper gutters, plaster walls, formica counters, stone or concrete steps.

Until the introduction of "Platch," the ten-year-old chemical manufacturer of intermediates specialized in aliphatic chemicals of exceptional purity which are marketed mainly to petroleum laboratories and refineries all over the world as well as the chemical industry throughout the United States.

♦ A NEW 16-page brochure, colorful, fully illustrated, taking the reader through the many interesting and dramatic departments which produce precision forgings, is being offered by The Billings and Spencer Company of Hartford.

Accent is placed on precision and quality in the production of today's missile forgings. Actual scenes in the Billings' chemical and physical laboratory, and in the various inspection departments are illustrated with an interesting commentary on each. The brochure, copies of which are available from the company, also contains information helpful to those ordering precision forgings.

♦ KAHN AND COMPANY'S new line of measuring sections, using stainless steel tube with especially smooth inside finish and close tolerance on eccentricity, is said to insure accurate readings of temperature and pressure instrumentation. Originally developed for their own use in checking out aircraft components and test equipment, the Hartford firm is now offering these measuring sections in sizes from ¼" to 2" O.D. and with working pressure ratings to 5000 psi.

Available in lengths with straight sections conforming to the ASME Power Test Codes and Aviation Industry standards, the measuring sections may be obtained with male or female AN tube connectors or flange ends. Straight sections containing both a pressure take off and thermocouple probe connector are also available.

♦ DUNHAM-BUSH, INC., West Hartford, has issued a new baseboard catalog including three baseboard lines —industrial, office, school, hospital, residence, and general heating installations.

Complete engineering information and instructions for installations are given. Roughing-in data, capacities, design, methods of installation and cutaway drawings showing typical installations are included with necessary diagrams, charts, etc. Parts are all identified to simplify ordering, with exact measurements and description of materials.

♦ TOM HOLLIS, president, Nelco Tool Company, Inc., Manchester, has announced the appointment of Robert A. Warfel as vice president and works manager of the company.

Nelco Tool Company is the Carbide Manufacturing subsidiary of the Cutting Tool Division, Brown & Sharpe Manufacturing Company.

Mr. Warfel was previously superintendent of New Product Development for Nelco and prior to joining the company was division superintendent of a large cutting tool manufacturer.

♦ THE WIREMOLD COMPANY, Hartford 10, has recently made available a new, 144-page, pocket-size catalog and wiring guide No. 21.

The catalog covers the company's complete line of surface metal raceways and fittings, Plugmold multi-outlet systems, fluorescent and slimline lighting equipment, and Wireduct non-

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metallic flexible conduit, with detailed installation instructions.

This latest catalog is said to list many new fittings to help electricians do a better job. Twelve new pages covering fastening methods, wiring for spotlights, graphical electrical symbols, and illustrations of various types of Wiremold and Plugmold installations make this 21st edition a comprehensive guide for those who work with Wiremold products.

♦ LAWRENCE W. FREEMAN, special projects engineer at Plax Corporation, Bloomfield, has been elected treasurer of the Western New England Section of the Society of Plastics Engineers.

A professional engineer, Mr. Freeman has been with Plax for eight years where he is involved in the development of special processes and machinery for the decoration of plastic bottles. He is a member of the Society of the Plastics Industry and the Plastic Pioneers of America.

♦ A NEW CONCEPT in tracer control for automatic 360° profiling was revealed recently with the announcement by Pratt & Whitney Co., Inc., West Hartford, of the development of the Magnespark Vertical Profiler.

Incorporating spark gap sensing elements that have been thoroughly proved on the company's Velvetrace milling machines, the Magnespark Profiler operates from a sheet steel profile template to produce any two-dimensional straight-line or irregular contour shape with speeds up to 60 inches per minute and with accuracies far closer than attainable by earlier profiling methods.

A unique and attractive feature of the new machine is said to be that it can trace at a pre-set constant surface speed, thus producing better surface finish as well as assuring longer cutting tool life.

♦ GRAHAM R. TREADWAY, vice president of The Connecticut Bank and Trust Company, Hartford, has been named chairman of the Connecticut State Development Commission by Governor Abraham Ribicoff.

He was named to a five-year term on the Commission. He succeeds Robert P. Lee, Connecticut Light and Power Company, as chairman, and also becomes a Commission member.

Mr. Treadway, who is head of the bank's public relations department, is chairman of the Industrial Development Committee of the Hartford Chamber of Commerce; chairman, Industrial Development Committee of the Connecticut Bankers Association, and a

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Gallon donors of Union Hardware Co. to blood program are shown with Marian Anderson, noted contralto.

member of the Connecticut Industrial Development Council.

He is a director and Connecticut treasurer of the New England Council and a member of the American Industrial Development Council, the Public Relations Society of America and president of the Hartford Sales Executive Club.

♦ MARIAN ANDERSON, world-famous singer, visited Torrington recently in an effort to dramatize the need for wider public support of the Connecticut Free Blood Program. Arrangements for Miss Anderson's visit were made by the industrial relations department of the Union Hardware Company.

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Miss Anderson, accompanied by her husband, Orpheus Fisher, visited the Union Hardware Company during the day and presented awards to six new members of the company's Gallon Club.

♦ MARTIN F. BURKE, personnel director of United Aircraft Corporation for 21 years, has been elected to the newly created position of vice president for industrial relations by the corporation's board of directors. He will be succeeded as personnel director by Morgan R. Mooney.

Mr. Burke was graduated from New York University in 1926. After graduation he worked for five years as an accountant with a New York public accounting firm. He joined United Aircraft as company auditor in 1931 and was appointed director of personnel in 1937. In 1954 and 1957 he served as United States delegate at conventions of the International Labor Organization held in Geneva, Switzerland. He is currently a member of the industrial relations committee of the National Association of Manufacturers.

Mr. Mooney joined United Aircraft as assistant personnel director in 1942. He is a former deputy labor commissioner for the Connecticut Department of Labor and has also served as secretary of both the State Board of Mediation and Arbitration and the State Apprenticeship Council.

♦ THE AMERICAN CAM COMPANY, INC., Hartford, has recently made available a new combination drill and turning tool holder designed to fill a long-felt need in screw machine tooling.

According to the company, the tool holder can be used to add a light turning or facing operation when the turret is full, to provide a chamfer or sizing turn combined with a drilling or reaming operation, and for other operations where combined cuts can save time and money. It can be used for either right hand or left hand turning operations, and minimum or no clearance is required. The drill head is adjustable for centering the drill on the work; the tool slide is adjustable for length.

♦ AUTO-VAC COMPANY, Bridgeport, manufacturers of machinery for forming sheet plastic, has been acquired by National Tool Co., of Cleveland, Ohio. The announcement was made by Arthur T. West, president of the Cleveland cutting tool firm, and E. Bowman Stratton, Jr., former owner of Auto-Vac.

Auto-Vac will continue to operate in Bridgeport as an independent division of National Tool, under the direction of Mr. Stratton who has been elected a vice president of the parent organization.

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♦ AN ALL-NEW, popular priced series of fluorescent lighting fixtures for use in schools, offices, and stores has been introduced by The Miller Company, Meriden. Called "The Richmond," the new fixture family is said to offer an exciting and unique combination of features to meet both aesthetic and functional lighting design needs.

The new fixtures are shallow, straight sided, and cleanly styled. One feature is the option of decorative "Texture-Lite" side panels. Texture-Lite, with upward facing lancings in the metal sides, is said to provide surface interest and a subtle, softly luminous effect.

Other features include: built-in channel connector for 2 lp. units; "U" shaped, translucent plastic side rails that provide continuous snug seating for side panels and lock with cross louver ends; an automatic aligning device for faster, more accurate alignment of shielding assemblies, and "twin" thumb latches at both ends of fixture which operate with slight finger pressure and are said to provide easy accessibility from either side.

♦ WORK has started at the Heli-Coil Corporation, Danbury, on a $75,000 expansion program for the renovation of administrative, research and engineering offices to a new air-conditioned area of more than 10,000 square feet within the existing building.

A portion of the new office area will be used to accommodate IBM data processing equipment valued at an additional $50,000 which will handle all sales order processing, market research and sales analysis data and inventory production and cost control.

♦ DURING the month of May, products made by Hamilton Standard, division of United Aircraft Corporation, Windsor Locks, assisted in the setting of seven world aircraft records in fifteen days. Most recent were the climbing records set by a Douglas F4D Skyray on May 22 and 23. In all, this aircraft broke five records in the two day period. The Skyray is equipped with two Hamilton Standard refrigeration packages—one for the pilot, another for the electronic equipment. In addition, it has the company's main fuel control, emergency fuel control, pneumatic starter and valves.

Earlier in the month, Hamilton Standard equipped Air Force Lockheed F-104's shattered the world's altitude and speed records. The F-104 is equipped with Hamilton Standard air conditioning unit, afterburner fuel control and pneumatic starter.

♦ NEW ENGLAND LAMINATES COMPANY, INC., Stamford, has just released two pieces of literature that are available on request. One is a four-page, two-color booklet outlining their philosophy, facilities and products in the field of high-quality clad and unclad plastic laminates for the electrical and electronic industries; and the other is a sheet illustrating some of their research and production areas and equipment.

Copies are available from Bruce Greenfield, sales manager.

♦ THE APPOINTMENT of Robert H. Chirgwin to the position of vice president in charge of sales, Dynatron Corporation, West Hartford, has been announced by Phillip Evans, president.

Formerly vice president and sales manager of The New Haven Clock and Watch Company, and general sales manager of The Lux Clock Company, Mr. Chirgwin is experienced in the manufacture and national distribution of automotive accessories and equipment to both automobile manufacturers and the automotive wholesale trade.

Mr. Chirgwin will direct the U.S. and export distribution of DC-3, a new, advanced type plastic filler used in autobody, industrial, farm and marine repairs. DC-3 spreads like putty yet hardens like steel, it combines a highly adhesive polyester compound with powdered catalyst which permits accurate control in preparing a thick or thin filler as needed.

♦ RUSSELL M. STOKES has been promoted to the position of sales manager of C. R. Burr & Company, Manchester, nationally-known grower and distributor of roses, shrubs and trees to retail nurseries and garden centers.

Mr. Stokes has been with the firm since 1948. Previously he was store manager of Montgomery-Ward in Middletown and was also in charge of the former Foxmart in South Windsor.

♦ PROMOTION of four top executives of the Winchester Western Division, Olin Mathieson Chemical Corporation, were announced recently upon completion of the company's integration program which consolidates its operating units into seven industrial divisions.

W. Miller Hurley, former divisional vice president and general manager of the Winchester-Western Division, has been appointed corporate vice president and continues as general manager.

Rodman A. St. Clair, assistant general manager, has been named a divisional vice president of the Winchester-Western Division. Robert D. Tegtmeier, former comptroller of the Winchester-Western Division, was named financial officer of the division.

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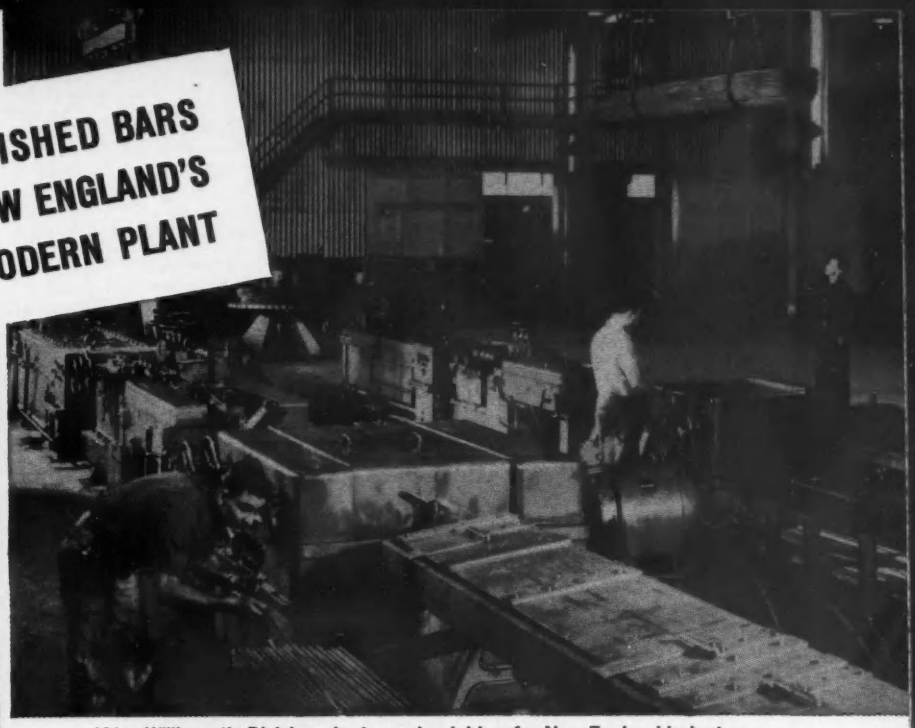

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This new plant is equipped with the most advanced machinery for the production of a full range of cold finished steel. High quality of the product is the result of J&L's control of every production step from ore to finished steel.

The exceptionally bright, smooth finish of Willimantic cold finished bars is a result of unique manufacturing methods specially developed for this area. For you, this means improved product appearance, lower manufacturing costs.

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Edward Hartshorne, general manager of the Nuclear Fuel Division, was named a divisional vice president of the newly formed Energy Division. He will continue to head nuclear fuel operations in New Haven and Montville.

♦ JOINT ANNOUNCEMENT of a plan by the U. S. Rubber Co. to give "appropriate recognition and suitable financial reward" to employees who submit suggestions that will save the company money or will promote safety, was made recently by Willard E. Bittle, factory manager of the Footwear Plant, and Philip E. Rice, factory manager of the Naugatuck Chemical Co.

The new plan will measure the value of each suggestion. Awards for tangible suggestions will consist of 20 per cent of the estimated net saving to the company for one year. Awards for intangible suggestions, where savings or profit cannot readily be measured, will be based on an estimate of their value to the company.

♦ WALTER C. THOMPSON, president of the Torrington Company, Torrington, has announced that Rodney T. Dunlap, a vice president and director of the company, has been assigned to new executive duties.

Since 1953, Mr. Dunlap has been general manager of the Bantam Bearings Division in South Bend, Indiana. He was elected a director of the parent company in 1956, and in 1957 was named a vice president.

♦ JAMES A. TAYLOR, president of Hartford Machine Screw Company, Division of Standard Screw Company, has announced the appointment of James J. Ford as general manager and Fritz Maier as sales manager of the rapidly expanding Fuel Injection Division.

Mr. Ford joined Hartford Machine Screw Company in 1946 and has been serving as sales manager of the Fuel Injection Division for the Roosa Master fuel injection pump, the new fuel filter and allied products for the diesel engine industry.

Mr. Maier joined Hartford Machine Screw Company in April from American Bosch, Division of American Bosch Arma Corporation, Springfield, Massachusetts. He joined that company in 1934 and served in many capacities including manager of the Order and Contract Department, staff assistant to the executive vice president, market analyst and manager of sales office.

♦ CONTACTS INCORPORATED, Wethersfield, manufacturer of precision electrical contacts in fine and precious metals, has announced the publication of a new brochure covering engineering data, contact selection, contact materials, contact design and contact sizes. Complete data tables are included for the selection of standard solid rivet types, button contacts and the typical properties of Conmet materials.

Newly added to the services of Contacts Incorporated are composite contacts—screws, plates and brackets. The company claims that production facilities allow the production of contact assemblies to precise dimensions in specified materials.

♦ THE CONCLUSION of a public relations firm that "There is too much complacency and self-satisfaction among the people and business community of Waterbury," stimulated detailed self-study of the strong and weak points of the community by some 125 local business and professional men and women.

This study has resulted in the adoption of a broad new Chamber program with prime emphasis on appreciation of the community's assets. To meet the demands of the expanded program, an eventual doubling of the budget is planned.

William M. Goss, general chairman of the Membership Development Campaign, said, "If the community is to continue to grow and prosper and if industry and business expect to flourish, the support of the Chamber by the entire community is essential."

Among the functions of a newly-created Industrial and Public Relations Division is that of developing community spokesmen who will "accent the positive." Its further tasks, expansion and diversification of existing industry and the gaining of new payrolls, are high on the priority list of the new Chamber program.

Carbide and The Atrax Co.

(Continued from page 8)

velop a completely automatic bur grinder.

At first this appeared as an almost insurmountable problem because there were over 920 different "standard" burs to grind and thousands of different sizes, shapes and contours that would have to be produced by a single machine.

Today this company has a battery of eleven completely automatic bur grinding machines, with others in various stages of completion. These machines were designed and built by Atrax for their own use. They are not for sale.

Each of these machines is capable of producing hundreds of different types of burs. The shapes, and almost super-human control of fluting, are governed by sets of cams pre-computed to feed uniform instructions to the grinding mechanism.

These sets of cams are mathematically accurate to one ten thousandth of an inch. Designing each set of cams required months of study and mathematical computation. Each cam set is expected to remain accurate and produce continually uniform burs for over 100,000 burs.

Some of the outstanding advantages of the new bur grinder are speed, uniformity of production and quality control.

Standard burs are made in practically every shape for which modern metalworking has a machining application. They are usually ordered by number, but are often referred to as ball, pinetree, cone, square end, flame and other such names that suggest their shape. They are used on such diverse products as locomotive castings, scientific instruments and even custom jewelry.

Performance of carbide is phenomenal in many metalworking applications. A midwest aircraft manufacturer reports that in routing a fibre glass and aluminum aircraft component, a solid carbide router outproduced a high speed steel router 100 to 1. A major automobile manufacturer reports that a single Solid Carbide End Mill produced 70,000 slots in cast iron and that 24 of these tools replaced over 1,000 steel tools.

A new addition to the Newington Plant completed in January 1958 has doubled manufacturing capacity. The 25,000 square foot plant boasts a cafeteria for Atrax employees, new executive offices and a Board of Directors room, attesting to the dominant position Atrax has assumed in this expanding field.

Tools Sold World-Wide

Atrax tools are advertised and sold the world over, and although carbide was originally developed in Germany, today, a major proportion of the world's carbide cutting tools are manufactured in the United States. Foreign markets represent a sizeable and increasing portion of Atrax sales. They have offices or representatives in Canada, France, Sweden, Portugal, South Africa, Italy and Japan, in addition to manufacturers agents and/or distributors and sales engineers that cover every metalworking center in the United States.

From the basement beginning, Carl and Ray, with over 100 employees, 60 sales people and foreign sales outlets, still see a tremendously expanding future for Carbide Tooling and feel that Atrax's most challenging growth still lies ahead.

Herbert Fichtner, Sales Manager of Atrax, says, "Carbide Tooling has become such a progressive industrial necessity that I believe we will see Atrax tools as easy to buy as a loaf of bread . . . the world over."

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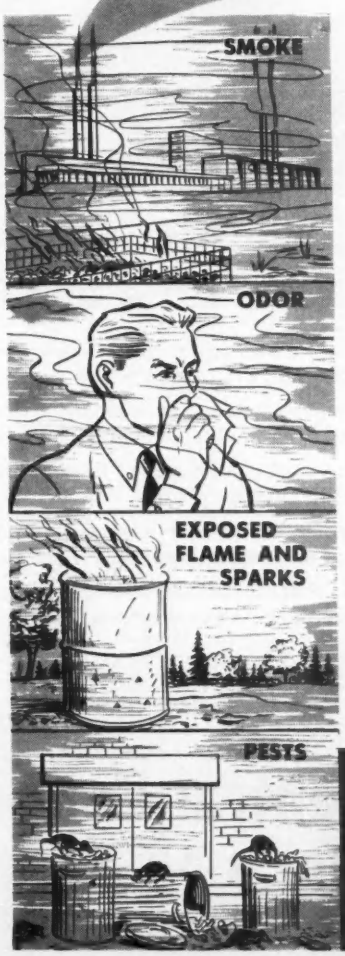

By eliminating the source of these four serious trash disposal problems, Hydrox-o-lator performs a valuable public relations service for industry . . . providing the most sanitary and efficient method of combustible trash disposal available.

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They offer you a diversity and depth of time-saving experience and facilities —impossible to find in any one plant.

Outside—you can often find quick and happy answers to your problems, through the specialist's ideas and techniques discovered on other assignments.

Take advantage of contract tooling—from several plants, if large programs require it —to get fast delivery of the most simple or complex tooling, at fair prices.

NATIONAL TOOL & DIE MANUFACTURERS ASSOCIATION . . . an organization of companies that design and manufacture special tools, dies, jigs, fixtures, gages, molds and special machinery, and do precision machining; located throughout the United States and Canada.

NATIONAL TOOL & DIE MANUFACTURERS ASSOCIATION — Tool & Die

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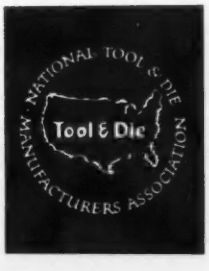
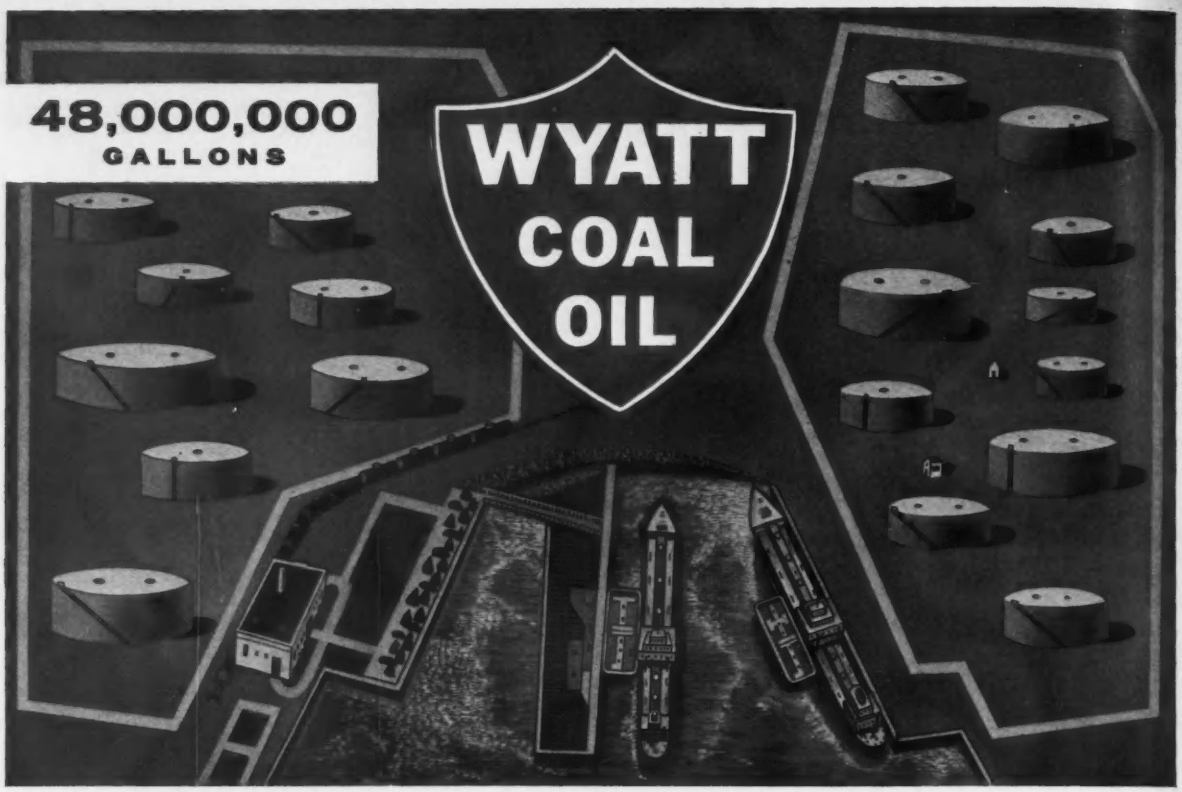


IT PAYS TO GO OUTSIDE FOR SPECIAL TOOLING

CENTRAL CONNECTICUT TOOL & DIE ASSOCIATION, local chapter of NTDMA . . . an organization of companies that design and manufacture special tools, dies, jigs, fixtures, gages, molds and special machinery, and do precision machining; located throughout central Connecticut and western Massachusetts.



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How Would You Decide?

By Fredrick H. Waterhouse
Counsel

May the company suspend an employee for insubordination when he refuses to perform a hazardous assignment in his line of work?

Here's What Happened!

A high voltage line was reported down and a crew was assigned to make repairs. It had been snowing that morning and there was snow on the ground at the time. In view of the special hazards of some work assignments in electrical utility companies, the contract recognized the dangers and provided that employees might question extremely dangerous assignments and even refuse to perform them until a solution is reached between company and the union. However, this provision specifically stated that it should not apply to any established practices but apply only to work assignments which clearly involve a violation of safety rules and such abnormal hazards as to affect a person's life. Regarding the assignment in question, the foreman directed that repairs be made in a certain manner but the employees involved raised some question about the line and insisted that it was too hazardous to follow the foreman's directions. When the dispute could not be resolved the foreman called the general foreman who made some suggestions as to how it might be done and the foreman then took over the further supervision. The workers refused to do the work as directed and were suspended for refusing to obey orders. The company claimed that it was a routine job and within the classifications of the suspended employees, and although hazardous, it was not a violation of safety rules and not such an abnormal hazard as to warrant refusing to follow instructions. The union claimed that the foreman's instructions were not good practice and also that the line should be de-energized, but this was rejected by the foreman as an unnecessary interference with the company's service to its customers as it was noon time and too many customers were involved. The employees made other suggestions and when they were turned down by the foreman they asked for conferences with the general foreman and with union officials. These requests were denied again on the basis that the work was not unusual and although it involved some hazard it was well within the general line of work of the employees.

When employment involves unusual hazards, how extreme must extra hazardous circumstances be to warrant refusing to follow instruction?

The Arbitration Board ruled that the employees were justified in refusing to follow the foreman's instructions. Although there was no doubt that the job classifications of these employees included a factor which estimated the duties of their job would be "extremely hazardous" 50% of the time, the lack of knowledge concerning just how much energy was in the line coupled with the unusual weather conditions and a lack of confidence in the foreman's ability and his fidelity to general safety rules justified the refusal to proceed according to his instructions.

Does incapacitating illness caused by excessive alcoholism warrant discharge?

Here's What Happened!

Following a series of accidents and absences resulting from "seizures" and "blackouts" which both the company physician and a consulting physician diagnosed as probably resulting from excessive alcoholic intake over a long period of time, the company discharged the employee. On several occasions the employee had fallen while at work and it was necessary to treat him for injuries suffered thereby and take him home. On some of these occasions he was reported to have been under the influence of alcohol. The company had given the employee repeated warnings and gave him a further warning a few months before he was discharged. In spite of these warnings and the realization on the part of the employee that his drinking habits were responsible for his physical and mental ailments, he did not stop drinking completely as the doctors recommended. He also failed to follow the doctor's orders concerning medication but shortly before his discharge he did go to a sanitarium for treatment. Although there was some

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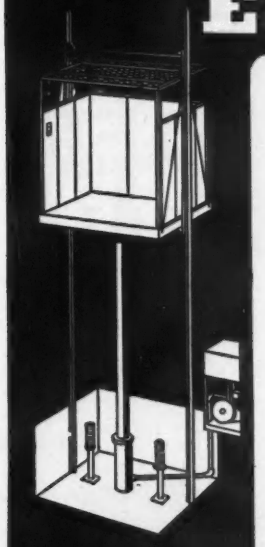

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prospect of his gradual improvement if he continued to refrain from taking any alcoholic liquor and continued to take the medication as prescribed by the doctor, his past history did not warrant any great confidence in his ability to do so. That his seizures can still occur in spite of his improved condition and future behavior was emphasized when he had a convulsion at the arbitration hearing. The company felt it was justified in discharging the employee because of his record and because there was an ever present danger of injury to the employee himself and also to his fellow workers when he had such seizures.

Must the company continue to employ a man who has ruined his health by alcoholism and is a hazard to himself and fellow employees?

The arbitrator ruled that he must be reinstated to a non-hazardous job. The fact that the employee had finally accepted treatment influenced the arbitrator to order the company to take him back for as long as he gives every indication that he will abide strictly by medical instruction and as long as he does follow those directions.

To what extent does the union committeeman's super seniority guarantee him a particular job?

Here's What Happened!

The contract contained a provision granting the union the right to designate 12 officers to be placed at the head of the seniority list in their respective departments. It also provided that this right of seniority applied only as a protection against lay-offs or permanent transfers. The employee in question was one of the group certified by the union as having this right of seniority. He was employed as a machinist's helper and did various minor repair work but admitted he was not qualified to perform journeyman machinist's work. When work became slack he was transferred out of that department and given a different and lower rated job. It was his claim that the work which he had been doing as a machinist's helper was now being done by journeymen and that he was entitled to continue in his classification as long as there was sufficient work for a machinist's helper in that department. As he was the last helper transferred out of the department and only journeymen machinists remained, it was the company's claim that his super seniority had been exhausted in so far as that department was concerned. The company pointed out that the contract also permitted the transfer of employees at the discretion of the company when it deemed it advisable to do so. In addition to the repair work which the employee did as a helper, he also had customarily done the simpler machinist's work and claimed that there was sufficient work of both catagories to warrant the retention of one machinist's helper in that department.

To what extent does super-seniority control over the company's general right to manage?

The arbitrator ruled that the protection granted union representatives cannot be absolute in nature but must be given sufficient recognition to permit retention of union representatives if at all possible. It cannot be reasonably construed as a guarantee of job retention under any and all circumstances and cannot prevail if the only work which is in fact available is work which the union representative is not qualified to perform. However, the arbitrator felt that the burden of proving that there is no such work is on the company, and it appeared in the present case that there was sufficient work for which the grievant was qualified in his capacity as machinist's helper and he, therefore, was improperly transferred.

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The PROOF of DSC STEEL is in its PERFORMANCE ON YOUR JOB

Some Things to Figure when You're Buying

Flat CR Steel for Stamped and Roll-Formed Jobs

. . . Especially in Strip Widths

DSC *AccuRolled STRIP FOR FUSSIER JOBS**—CR Sheet Steel slit into strip widths, no matter how narrow, is still Sheet Steel and *not* STRIP. That isn't to say that sheets won't work on a lot of jobs. But in this business of stamping and roll-forming, there are "jobs and jobs." A job that's the least bit fussy in gauge, temper and/or finish, say a "borderline" job . . . ordinarily runs best with STRIP, for example, DSC AccuRolled STRIP.

That is particularly true if you have your eye more on *overall or unit manufacturing costs FOB your shipping door* than on a seeming saving of a fraction of a cent *per-pound-per-purchase-order FOB your receiving department*. Here are some whys and wherefores.

WHY MADE-TO-YOUR-ORDER STRIP?—DSC STRIP is the rifle approach, in contrast to the shot-gun approach, for hitting your job-requirement target. It is *special purpose* steel . . . *your* purpose, *fresh-rolled* to your order, *AccuRolled* all the way from the hot bands up . . . to the particular thickness, temper and finish best suited for *your* job . . . not somebody else's.

THE DO-MORE-FOR-YOUR-DOLLAR STRIP—The combination of LEVEL GAUGE, EVEN TEMPER and JOB-SUITED FINISH lets you run your job non-stop at top speed; cuts risk of jamming; eliminates rework expense; assemblies are surer, faster with strip-made components. RESULTS—higher yields per man-hour, lower unit production costs.

HOW DSC SERVICE CUTS YOUR INVENTORY COSTS—Flexible lead-time built into DSC production schedules helps meet your routine and "sudden" delivery needs too . . . often beats warehouse service . . . so customers say. Helps keep your inventory in bounds . . . as far or as little ahead of your operating schedule as you please. No "lay-away" plans—you need never obligate yourself for more steel than you need.

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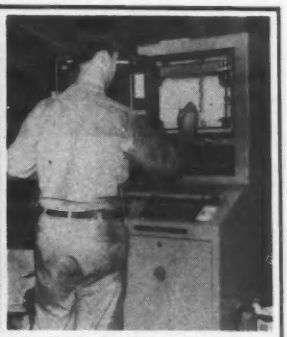

THE ELECTRONIC RECORDER

Here are two elements of Industrial Nucleonics (Columbus, O.) AccuRay® which electronically controls AccuRolled STRIP thickness *as it is rolled*. No further gauge-checking of any kind needed before slitting or fabricating.

THE ODDS ON SOURCE SECURITY—We're no economic fortunetellers. The steel industry seems to be approaching a more normal demand-supply balance. Just when that will come about, we wouldn't know.

We do know this—as a matter of long-time practice we stock what is probably the largest tonnage of stripmaking hot bands in the East—whether steel is plentiful or scarce.

Here is reasonable assurance of source security for our regular customers . . . Care to check our past performances on this score?

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Public Relations

By A. Carl Messinger

♦ Public relations—is it good or bad for the public?

In ATLANTIC MONTHLY for May, the author of the best-selling "Hidden Persuaders," Vance Packard, writes, "When public relations people become as a group more forthright, less designing, more strict in their standards, and more respectful of the public, then —and only then—will the discerning public accept them as real professionals." The general tone of this piece and the fact that most of the article is devoted to what the author considers as unsavory practices of public relations causes one to wonder about the purpose behind this writing.

As a former newspaperman, Mr. Packard certainly knows that a case can be made against any occupational group—businessmen, educators, manufacturers, physicians, newspapermen, butchers, bakers—or what have you!

Public relations has been estimated by the WALL STREET JOURNAL to employ 100,000 persons. In a total of this size there is always great diversity, for such are human beings. It is interesting that Mr. Packard says, "Many of my acquaintances on the PR staffs of corporations seem to be thoughtful and matter-of-fact in their approach to helping their employer maintain good relations with the public." Is it possible that these are the men who practice public relations rather than press agentry or devious practices masquerading under the PR name?

Your Association's new brochure, A MANAGEMENT GUIDE TO PUBLIC RELATIONS, raises an interesting question: "What is public relations?" In the words of FORTUNE, Public relations is good performance, publicly appreciated because adequately communicated." The definition of PUBLIC RELATIONS NEWS is: ". . . the management function which evaluates public attitudes, identified the policies and procedures of an individual or an organization with the public interest, and executes a program of action to earn public understanding and acceptance." John W. Hill in his book "Corporate Public Relations" more succinctly states ". . . . the management function which gives the same organized and careful attention to the asset of good will as is given to any other major asset of the business."

It is obvious that organizations practising public relations under the foregoing definitions have either arrived at a public service concept or will be affected by the thinking of public relations as essentially public service (plus letting people know), once the organization activates a PR program.

Public relations is a peculiarly American concept. Why would it originate in this country? Because business can exist here only through public approval. Mr. Hill states it very well when he says:

> "The people can at will confer new value upon an undertaking—as in supporting legislation that gives the farming business substantial subsidies, or that lightens a tax load. Their representatives can as readily refuse to confer new value. They can subtract value, as in supporting proposals for discriminatory taxation.
>
> ". . . . . [the people] can similarly confer special value on the products of a corporation, or decline to confer it. Who was it, for instance, who decided the Stanley Steamer had no value for the American people, and junked the air-cooled Franklin—and ascribed the enduring values to other kinds of automobiles? . . . .
>
> "That is why public relations now enters into the balance sheet calculations of every corporation in America. No power in America can now define value or calculate a profit without the consent of the people."

It is true that a substantial portion of management does not conduct its business in awareness of this simple truth. But management is in the process of learning it. When this truth is fully appreciated, you will have much more of industry following a policy of economic education for employees and the community; active management participation in political parties from the precinct level up; and frank information concerning company attitudes on the issues that confront the people of this nation.

Already some corporations are doing just this, notably General Electric. Industry associations are initiating programs. Part of this new awareness of economic education, management participation in political parties and forthright company information is the result of the desire of free enterprise to survive. Partly it is because of men

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Yes, you can trust CMT to meet all your commercial heat treating needs. That's because the CMT Team—men and modern machinery—produce dependable precision work faster at less cost.

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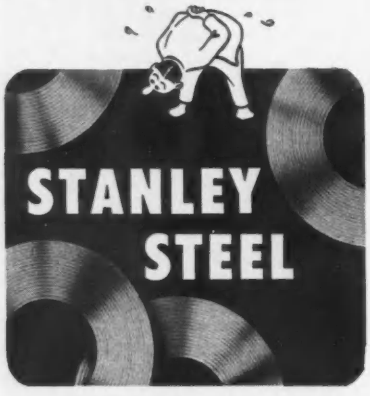

has it for you

Order exactly the edge you need on Stanley Cold Rolled Carbon Strip Steel from Stanley Steel, Division of The Stanley Works, New Britain, Conn.

STANLEY

such as Congressman Gwinn pointing out that labor wins legislative battles at the grass roots. And partly it is a result of awareness fostered by public relations that the man behind the machine cannot be forgotten.

Sheltered Workshops: Doorway to Jobs for Disabled

(Continued from page 12)

logical reasons.

(d) Severely disabled people who require regular occupation but possess little productive ability.

The Sheltered Workshop serves to channel back into the mainstream of normal activity those who can be profitably engaged; it also meets needs of the productively less feasible candidate. When properly coordinated with the associated aspects of rehabilitation, sheltered workshops act to process the handicapped person back to part or full-time employment with despatch and economy.

Industrial sub-contracts provide the backbone of Sheltered Workshop operations within the Connecticut Society for Crippled Children and Adults, although some of the Rehabilitation Centers also produce their own products. At the Hartford Industrial Workshop, the handicapped population reflects the occupational trends of the community. It is logical and desirable to return a man to his former occupation if disability has not ruled this out. Hence, many of our patients spend anywhere from three to six months performing bench work, assemblies and small machine operations in the sheltered workshop in preparation for the return to the job. This duplication of the industrial environment permits the Center to demonstrate to employee and employer the former's capacities to meet actual job demands. Placement is then effected on the basis of analysis and measurement instead of charity and chance.

Typical of patients served at the Hartford Rehabilitation Center, is Mr. B. who came to the Center for a rehabilitation program following a stroke. Mr. B. had a long and successful work record at Arrow-Hart and Hegeman. During a six months course of intensive therapy, it became apparent that Mr. B. would not be able to return to his former job as a machine operator. In the sheltered workshop, emphasis was placed on increasing work tolerance and the development of other work skills including drill-press operations. The vocational counselor at the Center worked in close conjunction with the medical department at Arrow-Hart and Hegeman and assisted Mr. B. to prepare for the anticipated job adjustment. When Mr. B. had attained a seven hour day, five day work week at the Center, a suitable job was located at Arrow-Hart and Hegeman and he returned to full employment there.

Mrs. S., a middle-aged woman with the residuals of congenital heart disease was referred to the Center for a work-hardening program. Chronic illness, complicated by discouragement and anxiety, had forced her into years of inactivity. In the Sheltered Workshop, she was helped to build her tolerance gradually from a two to a six hour span, from two to five days per week and to increase speed and dexterity in performance. She was able to secure work as a bindery worker upon completion of her rehabilitation and has been successfully employed for two years.

The records of the Hartford Rehabilitation Center abound with similar evidences that a well planned and supervised work-hardening program often makes the difference between discouraging idleness and enthusiastic productivity. Proper evaluation of liabilities and assets, a period of personal adjustment, the development of optimal work capacities, vocational training where indicated and selective placement constitute the answer to maximum utilization of manpower resources among the disabled.

The Connecticut Society's Centers work in close cooperation with the Division of Vocational Rehabilitation and the Connecticut State Employment Service to assure adequate guidance, placement and follow-up services.

The Industrial Sheltered Workshop of the Hartford Rehabilitation Center and other sheltered workshops in Connecticut require and solicit sub-contract operations from local industry. Because the sheltered workshop operates at a low overhead and because of the unusual motivations for its existence, sub-contracting work to the Centers will in many instances result in savings in the manufacturer's operating costs. The Industrial Sheltered Workshop of the Hartford Rehabilitation Center stands back of its work performance for such well-known manufacturing concerns as Holo-Krome Screw Corporation, Allen Manufacturing Corporation, Dunham-Bush, Inc. and Wiremold Company. Our job is the conservation and restoration of human resources. Industry has more than a passing interest in this undertaking. Manufacturers should consider the Sheltered Workshop in their area when they have bench work and small machine operations to sub-contract. By placing suitable sub-contract work with a Sheltered Workshop, manufacturers are helping not only the physically handicapped to help themselves but frequently are helping themselves by lowering production costs.

4

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Accounting Hints

Contributed by
The Hartford Chapter National Association of Accountants

The Depreciation Outlook

By ALLAN HOWARD, C.P.A.

♦ THE depreciation factor is becoming of increasing importance both to management and the accountant. Management's concern hinges on the ever present problem of generating funds through depreciation recovery not only to maintain the present investment in capital assets but also to assist in meeting expansion needs, while the accountant finds himself coping with the problem of computing reasonable depreciation charges for financial and product cost purposes.

The significance of this depreciation factor can be seen from the results of a recent study that indicated depreciation comprises usually three to five percent of the cost of goods sold in today's market and in extreme cases accounts for as much as twenty percent of the product cost. Much of the incease in the depreciation charge can be attributed to the rapid trend toward more mechanization of operations, with even automation coming upon the scene, and no small portion to the inflationary spiral of rising wages and prices.

Historical Cost

Generally accepted accounting principles have firmly established that the original cost of a tangible capital asset is the only proper basis for determining depreciation. Since the Federal income tax laws also limit any depreciation deduction to a computation based on this original or historical cost principle, no incentive presently exists for a revision of this principle. The allocation of the cost of a tangible capital asset, less salvage value, if any, over its estimated useful life, is the definition of depreciation today and is the only yardstick applicable currently in selecting and applying depreciation methods.

That the accounting for depreciation is greatly influenced by the tax laws cannot be gainsaid. The liberalization of the depreciation allowable as a deduction under the provisions of the 1954 Tax Code resulted in an almost overnight switch by countless firms to adopt one or more of the accelerated methods of depreciation.

The various methods employed in arriving at depreciation allowances—straight-line, declining balance, sum-of-the-years digits, unit of production, etc.—have been the topic for many of the articles appearing in current accounting literature and the basis for much discussion. At the expense of being repetitious, these terms will only briefly be defined in order that the subsequent remarks will be clearly understood.

The straight-line method of depreciation spreads the cost of an asset equally over its estimated useful life. It is the most widely used method and undoubtedly its common usage results from the simplicity of the computation. Declining balance depreciation applies a uniform rate (percentage) each year or accounting period to the unrecovered cost of an asset. The result of this method is a constant reduction in the annual depreciation allowance for each year subsequent to the year of acquisition. A similar decrease in annual depreciation occurs with the adoption of sum-of the-years digits depreciation accounting that is the result of applying a fraction, the numerator of which represents the remaining life in years and the denominator is the sum of the numbers representing the years of life of the asset. Under the unit of production method, the depreciation charge for a period is determined by the productive output of the asset based on the total estimated productive capacity of the asset during its economic life.

While the adoption and application of any of the depreciation methods previously outlined will eventually recover the cost of the assets consumed in the production and operations cycle through charges against sales revenue, only the original investment (a fixed number of dollars) will be made available to management for reinvestment. It should be noted that although the application of the declining-balance method will result in a residual value or undepreciated balance at the end of its estimated useful life, this balance can be reduced by an increased depreciation charge on a straight-line application for tax purposes if it is considered in excess of the estimated residual or scrap value.

The accountant measures the reasonableness of the depreciation charge by such considerations as the construction, frequency of use, repairs incurred to

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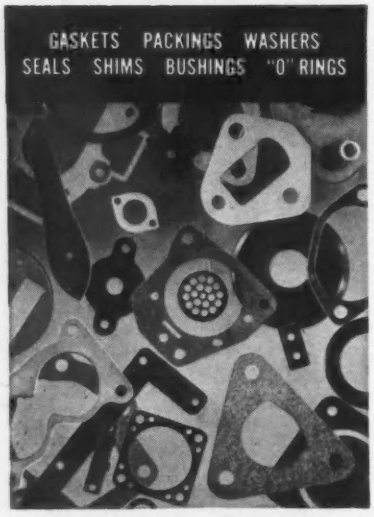

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maintain usefulness and other pertinent factors. Analysis of these factors will generally support adoption of an accelerated depreciation method, (declining-balance or sum-of-the-years digits). The increased repair costs in later years and rapid technological advances are best provided against by larger depreciation charges in the early years of acquisition.

The accountant does not ignore for a moment the effect that the increased depreciation charges will have on the amount of net earnings. And if the impact on earnings resulting from accelerated depreciation charges is substantial, it may be deemed necessary to reflect a deferred tax liability in the financial statements. In any event, the total of the depreciation charges for the period will be shown either as a separate item on the statements or set forth in a footnote to the statements.

Undoubtedly management's viewpoint in adopting any depreciation policy will be influenced also by the tax considerations. An earlier recovery of capital expended on depreciable assets will provide funds that are available that much sooner to the company. These funds can then be availed of for business use which may include expansion plans. Representing, as these additional funds invariably do, tax payments that are merely postponed (in certain instances they could also result from reduced distributions to stockholders), continued acquisitions of depreciable assets as replacements or in connection with expansion can result in an indefinite postponement of the tax payments.

Reinvestment Depreciation

Although the liberalization of the depreciation deduction for income tax purposes assists a little, management is still keenly aware of the inadequacy of current depreciation dollars to provide the necessary funds for the replacement of assets retired or otherwise disposed of. Depreciation, looked upon as the primary source of funds for replacement purchases, has itself been subjected to depreciation in terms of purchasing power as a result of inflation and taxation. It will be recognized by all, however, that a portion of the increased cost of property replacements has resulted from newer and more complex equipment.

A current proposal before the Ways and Means Committee offers what appears to be a practical method for granting tax relief to those caught in this vicious depreciated depreciation dollars cycle. This proposal suggests an allowance be made for the deficiency in depreciation in terms of current dollars at the time retirement and replacement takes place. The excess of the equivalent cost in current dollars over the original cost of the asset retired or disposed of is referred to as "reinvestment depreciation" and should be the basis for a deductible allowance for tax purposes.

Under this proposal, a cost index either constructed or accepted by the Government, would measure the current cost of property sold, retired or otherwise disposed of. To the extent that replacements are made equaling or exceeding the current cost of retired assets, a reinvestment depreciation allowance could be taken on the difference between the current cost of the asset retired and its original cost.

This proposal is extending the application of LIFO (Last In, First Out) as applied presently to inventories, to fixed assets insofar as rising costs affect what is considered to be a fixed investment. Assume for illustration that a machine purchased in 1941 for $10,000.00 and fully depreciated since that time is scrapped in 1958. The cost index shows an increase of 125% during this period. With an equivalent current cost today of $22,500 (225% x $10,000) the taxpayer would be entitled to a maximum reinvestment depreciation deduction of $12,500, which represents the 125% cost increase. The maximum deduction would be permitted only if the cost of replacements during the year equalled or exceeded $22,500; otherwise, it would be limited to the excess of the replacement costs over the original cost of $10,000. Proponents of this proposal are suggesting a two-year carry-over of any unused reinvestment depreciation allowances.

The accounting for depreciation has been based on the assumption of stable money. The fallacy of this reasoning is becoming quite obvious and evident and a reappraisal of the situation will become mandatory if the inflationary spiral continues.

No Room for Snobbishness

(Continued from page 13)

Unfortunately this does not provide a definition for the production engineer, who is hardly more than a glorified foreman in many companies, nor for the eminence achieved by the street cleaner who now insists on being classified as a sanitary engineer.

On the other hand it does not distinguish dental aides and beauty parlor specialists, who wish to be called technicians, from the engineering technicians who have completed two or more years of study in a technical institute providing education on a post secondary school level.

Such training tends to develop types of creativeness peculiar to the "do it

yourself," type of individual. A sixth sense seems to develop when such technicians spontaneously diagnose operational trouble without prolonged deductive reasoning. An element of intuition, practical in nature, occurs different from but comparable to the mental mutation of an engineer suddenly conceiving a new design.

These separate abilities prove us wrong in the too frequently taught theory that "all knowledge will lead to an ultimate single conclusion," and reminds us we must recognize that many solutions may exist for each problem and many types of workers to achieve them. Certainly a kind of paternal condescension toward the technician will not motivate students to enter the field, even though their natural abilities indicate interest in the practical and operational rather than the abstract.

Technical Institutes Upgrading Training

Fortunately our technical institutes are beginning to emerge from the alluvial intellectual mud, mostly by their own efforts. Increasingly the caliber of their courses of study is becoming recognized because technicians successfully compete with engineering graduates as sales engineers, customer engineers and in similar areas where the technical "know-how" must be combined with broad viewpoints.

It is a slow process because of the decades of tradition which have accumulated. Since few heads of technical institutes are technical institute graduates themselves, most of them being transfers from engineering colleges, it is natural that they retain some of the educational patterns obtained in the formative years of their lives.

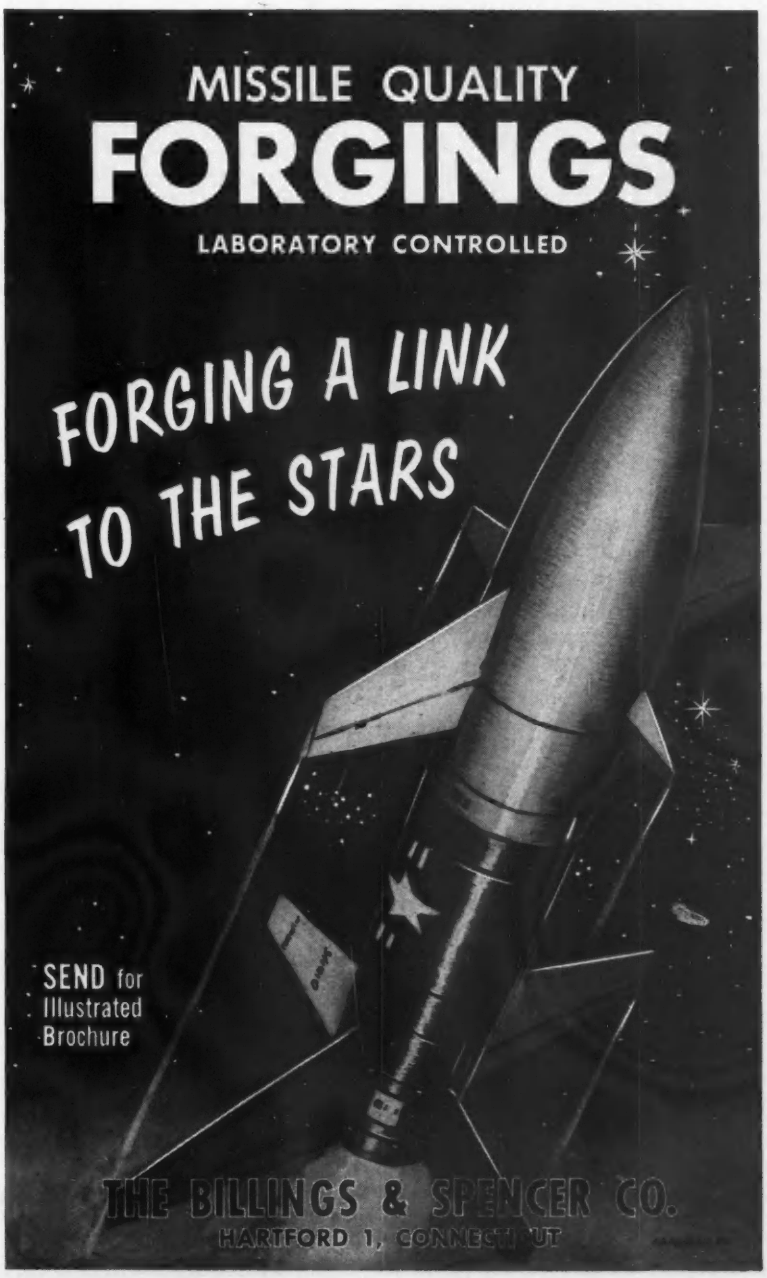
In this evolution of technical institutes a conflict had developed. The desire to conform, creating a pattern similar to the traditional, is in opposition to what industrialists report is the major strength of the technical institutes—their individuality of purpose and interest.

Personnel visitors at the Ward School constantly indicate an interest in many kinds of employees. They mention the need for widespread recruitment because the graduates of one institute differ from those of another and because this difference in training makes it possible to fill many kinds of jobs on equal terms. As these same graduates become customer engineers for such companies as IBM and DATAmatic replacement will become more difficult if motivation is not stimulated on the secondary school level through making students aware of the opportunities for advancement in the field.

Too frequently we are forced to discourage an applicant because he has taken an "easy" course and is inadequately prepared. We have no worry about the talented student, proudly reported as being among that "fine 40 per cent who went on to college last year," but we do worry about the neglected in that between group, whose capabilities could be stimulated if less emphasis was placed on artificial standards through IQ ratings and social mores.

Many solutions have been suggested. One is to find a different name for the technician. Just as the word electronics was coined, the name techtronics has been suggested for electronic technical training. But this hardly seems to be the answer, since it avoids the issue. What we really need is a better understanding of the technician's abilities and skills, by educators and industrial management alike; opportunity to use and develop technical talent and less condescension from snobbish tradition.

(Continued on page 55)



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Business Tips

By **WILLIAM N. KINNARD, JR.**
Head, Business Department
School of Business Administration, University of Connecticut

Before the Trucks Roll Through Your Plant—Or Your Living Room

♦ THERE is a great deal of road and highway construction going on in Connecticut, with more on the way. Utilities are stringing more lines. Pipelines are fanning out through the state. Schools are being built. Cities are reclaiming blighted areas through urban redevelopment and renewal. All these developments have one important common feature. They involve the acquisition of some or all of the rights of ownership in real estate by public or quasi-public bodies.

Eminent Domain

When governmental bodies or utilities acquire real estate, they have one important edge over private purchasers. That is the power of condemnation under the right of eminant domain. Eminent domain is one basic restriction on private ownership of real estate exercised by government, together with the police power, taxation, and escheat. Under the right of eminent domain, a governmental body or utility may acquire ownership interests in real estate from private owners *provided* "just compensation" is paid. If the owner does not wish to sell, he can be compelled to do so. The action by which the owner is forced to sell is known as condemnation.

Under condemnation proceedings, the condemning body must prove that it has the statutory right to condemn, and that the contemplated use is a "public use" as defined by the legislature or the courts. If this can be done, the owner cannot contest the taking of his property. The only question remaining is that of price.

Just Compensation

This brings us back to the problem of just compensation, which is guaranteed in the United States Constitution, as well as in those of the several states. In Connecticut, as elsewhere, the owner is entitled to the fair market value of the loss in property rights suffered as a result of the public taking. Fair Market Value has been variously defined by the courts, but the essence of the concept is this: Fair Market Value is what a willing buyer would pay, and a willing seller accept, there being no fraud or collusion, and each party acting with full knowledge and voluntarily.

Note that the concept assumes a willing seller. With public takings, especially under condemnation, the seller is usually most unwilling. But the courts are the final arbiters of what is just compensation.

When an entire property is acquired, the problem is relatively simple. Suppose, however, that only a portion of a property is taken, or that only part of the owner's rights are desired (as with a right of way for a power line). Then the owner is entitled to the value of the portion taken (the Taking), plus the loss in value or damages suffered by the Remainder. This is usually ascertained by estimating the Fair Market Value of the property immediately before and immediately after the taking.

It should be noted that when State or Federal governments are involved, there must be an actual taking or Severance of some part of the property before the owner is entitled to any compensation. Some action, such as raising the level of a highway, may very definitely affect the value of adjacent property adversely. Yet if there is no actual severance, then these are regarded as Consequential Damages, which are not compensable by Federal or State governments. Local governments may be required to pay for consequential damages, however.

The Role of the Appraiser

If nothing can be done about a public taking, what course of action is open to the owner? First, he should retain a qualified attorney. Expert legal advice is necessary throughout public takings. Next, he should retain a professional appraiser.

Real estate consists of dissimilar, unique units. There is rarely a "going" price for a given parcel. Fair market value, and hence the amount of just compensation, is largely a matter of informed judgment. Expert witnesses are permissable on both sides to assist

(Continued on page 54)

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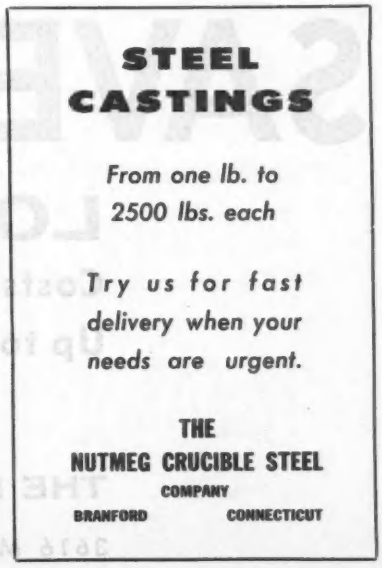

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♦ THE day is long past when an advertising agency's job was merely to create and place an ad. As American marketing concepts have changed through the years, the agency has assumed a growing role which has nevertheless not strayed from its basic function—getting the word to the consumer.

An example of this new thinking is the seminar program begun two years ago by Van Lear Woodward Associates, Westport. Twice each year Connecticut industrial leaders are brought together with the editorial staff of a leading trade magazine. The company executives are clients and friends of Van Lear Woodward Associates; the editors from such publications as PRODUCTION, MILL & FACTORY, AND STEEL.

The increasing attendance at the seminars is evidence of the program's success. The marketing people have found the meeting a valuable forum for the exchange of impressions among non-competitive, yet often related industries. Editors have uncovered many article ideas from the sessions.

In the past, with representatives of the metalworking industry, discussions have been held on the methods of distribution, the market potential and the pricing structure. The subject of the most recent seminar was the role of the plant engineer in today's economy.

Role of the Plant Engineer

A key to the value of these meetings is their informal nature. Only the opening hour is devoted to the lecture type of presentation. The remainder of the time is spent searching out the problems that have been faced and solved by the companies in attendance. The seminar is always ended in the middle of the afternoon, at a point where not all of the questions have been answered. Participants are encouraged to think up new ones on their way home.

The recent seminar on the plant engineer was conducted by five members of the staff of PLANT ENGINEERING, with the editorial rather than the advertising representatives in charge. It was pointed out that sixty years ago the American industrial plant was fairly simple, with the power plant the center of operation. The man who ran the power plant was the all-important figure in the operation. The development of the electric motor

Seated left to right, Richard Y. Fuller, Charles R. Lippold, and Vernon T. Kempf, all of Plant Engineering; Van Lear Woodward, Woodward Associates; Emil B. Skubik and Arthur L. Rice, Jr., *Plant Engineering*; Standing, left to right, Robert Atkins, Whitney Chain Co.; Bruce Millar, Woodward Associates; Edward F. Wilson, Sargent & Co.; George Huff, Perkin-Elmer Corp.; Norman Hanson, Automatic Signal Co.; B. L. Thunman, Homestrand, Inc.; partially hidden—W. F. Schilling, I.B.M., Time Equipment Div.; Dorset White, Tork Time Controls; Royal Whitman II, Woodward Associates; William C. Olmsted, Woodward Associates; Edward Castro, Sperry Products, Inc.; George Sherrard, Cordo Chemical Corp.; John S. Kemble, Woodward Associates, Steve Smilansky, Boots Aircraft Nut Corp.; Ashbel Green, Monroe Scharff Associates; Thomas F. Cosgrove, Woodward Associates, Frederick Hall, Cordo Chemical Corp.; Jay Boots, Boots Aircraft Nut Corporation.

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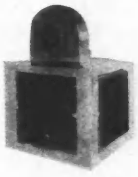

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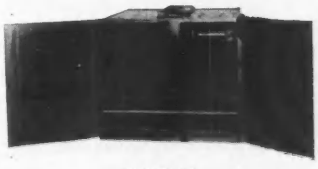

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around 1910 changed this situation, and decentralization became the order of the day. Operating efficiency, rather than reliability, was the new credo.

As industrial processes became more complicated, with companies giving more attention to plant safety and materials handling, the role of the plant engineer came into focus. But even ten years ago, the title "plant engineer" was not common.

Today, however, under a variety of names, the plant engineer's status is an important one. He is a trouble shooter, a designer, an expediter and an accountant. His responsibilities include building maintenance, production, plant security, housekeeping and sanitation, cost control, training of personnel and development of necessary equipment that can't be bought on the open market.

Today's plant engineer, the editors told us, is usually a college graduate who is aware of modern industrial changes. Much of his work is behind the scenes, working with the production team for greater efficiency in manpower and equipment. He is always concerned with the problems of standardization and interchangeability. He is constantly reviewing new products that may contribute to greater operating efficiency and cost control. While he is likely to complicate the job of the maintenance department, there is no gainsaying his contribution to the total profitability of the company.

Not all of the country's 34,000 plants employ such an individual, but is has been figured that any factory with 100 employees or more should do so. The average salary of a plant engineer is about $10,000, with the maximum ranging up to $25,000.

The meeting concluded with an appraisal of the plant engineer's buying power. It was decided that his broad responsibilities in practically every phase of the manufacturing process made him a prime customer for goods and services.

"We at Van Lear Woodward Associates feel that this unique series of seminars has brought about better understanding of many marketing problems by both our clients and ourselves," said Van Lear Woodward. "The final proof of the pudding is when they tell us of the practical application they have made of what they learned at a semniar.

"Perhaps an even greater benefit is realized in what we learn about our clients' business. Many points are brought out in discussion that usually are not disclosed in normal agency contacts. This, we feel, has enabled us to serve our clients better.

"Summing it all up, we feel the seminar is definitely here to stay."

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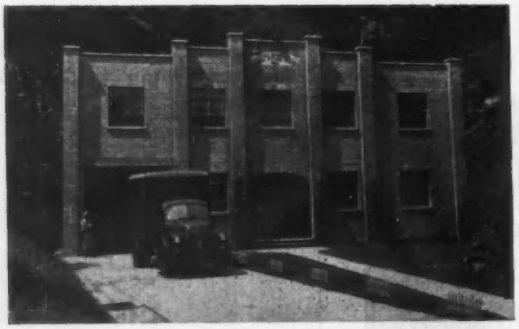
An analysis of the many facets of material handling and suggestions for effecting important economies are outlined in a new booklet entitled "100 Ways to Cut Material Handling Costs."

Compiled by Manpower, Inc., the booklet suggests ways of streamlining and economizing material handling procedures by applying sound management principles. Consideration is given to equipment, design and construction, conveying, storage, delivery, unloading, safety and administration.

"Government studies show that 22 per cent of the entire American payroll is made up of material handling costs," Elmer L. Winter, Manpower president, points out in the introduction to the booklet. "Much of this great expenditure, authorities maintain, is completely unnecessary. The complete operation of unloading, storing, conveying and delivery can be streamlined and made more economical through the application of sound management principles."

Manpower, Inc., international temporary help firm, does work for offices, factories, stores and warehouses during their peak seasons, vacations and work overload periods with its own bonded employees. Its 150 offices are located coast to coast (with four offices in Connecticut), and overseas. The booklet may be obtained free of charge from Manpower, Inc., 810 N. Plankinton Ave., Milwaukee 3, Wis.



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The Industrial Designer: Economizer and Stabilizer

(Continued from page 9)

should be on increasing the profits of his clients. His contribution to cost savings, with all its ramifications, can only be given, when he operates in the following way.

Working As Part-Time Employee

In essence, when the industrial designer works as a part-time employee of the companies he serves, coming to the plant on a regular schedule, he can roll up his sleeves and work alongside all the specialists involved in product planning and be constantly available during all stages of development and production. If he works in this way—and only in this way—the designer can actually serve as the one person in the plant who can effect substantial cost savings by bringing together the various specialized ideas of engineers, sales people and executives, through his tool of three-dimensional drawings. I firmly believe that the specialization in industry today, with its inevitable lack of communication, is a real factor in the consumer's discontent with the product he is asked to buy. All too often a product turns out to be a conglomeration of ideas of individual specialists, each of whom puts his individual stamp on the product without sufficient knowledge of the plans and ideas of others working on the same production plan, or too often good ideas are misplaced during the pressure of getting the new widget on the market.

How can all these excellent ideas of the hydraulic engineers, the electronic engineers, the die-casting experts, the finishing experts, the servicemen, the salesmen, be utilized with a maximum saving to the company in money and manhours? The down-to-earth businessman is learning that the industrial designer, working elbow to elbow with these people inside the plant can act as the common integrator to bring these specialists together. Through on-the-spot sketches, the ideas of all these specialists can be intercommunicated quickly and visually, before money is spent on costly engineering drawings and experimental models. All concerned can study these detailed sketches over the conference table—to discuss, retain and eliminate ideas and to finally decide just how a given product will be manufactured and merchandised. This cross-fertilization of ideas brings new concepts into product planning which otherwise might never have been brought out. The ferreting out of these ideas is the life blood of industry and progress. Specifically it happens this way.

Case History

Guy Thornton, an industrial designer with a broad background in art and engineering goes to work, let us say Tuesday, for a machine tool company in upper Connecticut. The engineers, the sales department, the top management, all know he will be there. Walking into the Jones Manufacturing Company, where he has his own desk, on a recent Tuesday, he went to the drafting room to go over final changes on an experimental model of a large boring mill. While he and the engineers were talking about the control panel layout, Smitheson, the sales manager, called him into his office.

"Guy, the competition has us on our grinders," he said. "Either we come up with a better grinder at a lower price or we'll have to take ours off the market. Bob O'Bronsky (the Chief Engineer) has been doing a lot of thinking on this. Work with him on it, will you?"

In his office, O'Bronsky and Thornton talked at great length about what was wrong with the present grinders; how they should look; what improvements could be made; where cost could be reduced. While they talked, the chief engineer called in various engineers. As the ideas poured forth, Thornton pulled out a desk drawer for his feet, propped a drawing pad on his knees and rapidly made sketches of many of these ideas. The chief engineer went on digging; Guy went on sketching.

When the chief engineer and the designer had ferreted out the thoughts of literally everyone concerned as to how this grinder could be re-designed, with Guy serving as a constant stimulant to new ideas, a series of sketches incorporating these ideas were brought into the main conference room. Several people from the sales department joined the engineers to study the drawings. The executive responsible for the over-all decisions joined in the conference.

At the end of this meeting, O'Bronsky summed up the "design directions" for the new grinder. "It must have an increased capacity of 20%," he said. "We need two new floor models, the rest bench models. We'll have up-to-date appearance. It will be easier to service."

Thornton went back to his own office with these design directions to work with. One of his men started a preliminary market investigation. He talked at length with people who were using the old Jones Manufacturing Company grinder; he watched them

(Continued on page 54)

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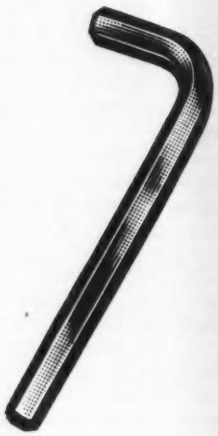

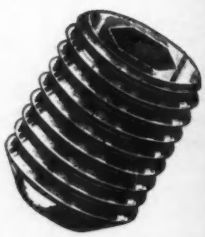

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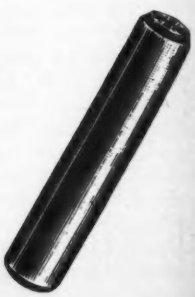

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Business Pattern

A comprehensive summary of the ups and downs of industrial activity in Connecticut for the thirty day period ending on the 15th day of the second previous month.

Business Levels In June

♦ THE Connecticut Index of Industrial Activity, in June at 9.6% below trend, showed practically no change from the previous month.

Several factors were responsible for checking the decline. Average weekly hours worked in manufacturing showed a good gain. Manufacturing employment losses were the smallest since last October, and electric power sales held level with May. However, the slight gain shown in Construction employment for June was much less than normally expected for this season of the year.

The national Index of Industrial Activity continued to reflect a more optimistic picture for business. The June standing showed improvement for the second successive month, moving to an estimated 12% below trend. Steel production again was the strong point. Auto and lumber production also improved.

Hours

In June, average weekly hours worked in factories showed a sharp increase.

The U.S. workweek advanced 6/10 of an hour to 39.2, marking the 2nd straight month of gain. In May and June nearly one full hour was added to the factory workweek. Gains were noted in every major durable goods industry except transportation equipment.

After lagging behind the nation in May, weekly hours in Connecticut moved up a full ½ hour to 39.3. Compared with last June, the state's workweek was still down one and 1/3 hours, while the U.S. was off only 8/10 of an hour.

In recent recession periods an increase in hours worked has forecast an improving business atmosphere.

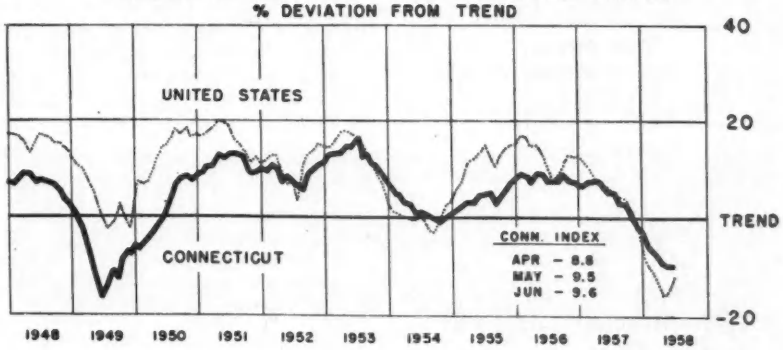
Earnings

Weekly earnings, as a result of the longer workweek, showed good gains in both Connecticut and the U.S.

The nationwide figure of $83.10 reflected an increase of $1.27 over May to register the highest weekly earnings since December 1956.

Connecticut earnings climbed to $84.50, up $1.08 from May. Earnings reached their highest level so far this year and were slightly above year ago figures. The increase occurred mainly in the primary metal industries.

INDUSTRIAL ACTIVITY — CONN. vs. UNITED STATES
% DEVIATION FROM TREND



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Unemployment

Total unemployment in Connecticut increased slightly in June primarily because of students entering the labor market seeking both permanent and summer employment.

The unemployment figures showed one out of every ten workers in Connecticut without a job. The ratio has tripled since June 1957.

Because this recession has been felt mainly in the "hard goods" area of manufacturing the state's large concentration of metallic industries have been severely affected.

Those labor market areas showing the greatest increases in unemployment are heavily dependent on metallic industries.

While nationally unemployment stood at about 7%, the ratio in the highly industrialized sections was in most cases equal to or worse than Connecticut's.

Prices

The Consumer Price Index has continued to rise despite the prolonged recession in business. During the last 12 months the index has gained over 3% with 1/3 of the increase occurring in 1958.

Foods and services make up 2/3 of the total index, each having weights of more than 30%. In the last twelve months, food prices have shown an overall increase of 6%, and the costs of services have moved steadily upward, increasing nearly 4%.

The unusual phenomenon of a rising price index in face of declining business is explained by two principal factors:

1st, shortages in certain food items stemming from the severe winter and the low herd levels of meat animals ready for market: 2nd, the continuing high level of wages built into the economy.

The first of these accounted for the sharp rise in food prices reflected in the index, and the second for the continuing rise in the service component. In regard to food items most are now in plentiful supply, and more meat animals are ready for marketing. This should result in some easing of food prices in the immediate future. However, the continuing uptrend in wage costs may well serve to counter-balance any food price decline.

Mideast

The recent developments in the mideast and the U.S. commitments there appear to have accelerated the onset of the business recovery which had been in the making. However, there are no strong indications that the recovery period will be measurably shortened or take on boom proportions.

Business Tips

(Continued from page 47)

the court, or court-appointed referees, in coming to a value conclusion.

To be effective, an appraiser must qualify as an expert to the satisfaction of the court. Often, a professional appraisal report can forestall court proceedings by showing the condemning body good reasons for certain damage claims. An appraisal is simply an estimate of value, but it is one that can be defended and proved.

Many appraisers have achieved some professional status by working toward the designations of the two national appraising societies: M.A.I. (Member, American Institute of Real Estate Appraisers) or S.R.A. (Senior Residential Appraiser). At present, some 50 men in Connecticut possess either or both of these designations. Others qualify as experts in court through experience alone. Qualification is important, because if the appraiser cannot qualify in the court, then his report can have little influence on the final decision. Every case under eminent domain must be regarded as a potential condemnation case, until a final agreement is reached.

Good appraisal service is not cheap. An experienced appraiser will command as much on a per diem basis as the attorney on the case.

Many of the best appraisers in Connecticut are not available to owners because they do a large volume of fee work for the Federal and State governments. This amplifies the importance of having expert advice on real estate value on your side. You may be sure that the condemning authority, in addition to all its legal ammunition and powers, will certainly have professional appraisers to support its case.

The Industrial Designer: Economizer and Stabilizer

(Continued from page 51)

operate it; he studied their motions for safety, convenience, and economy of effort. Another man made a series of three-dimensional drawings based on all this data on how the grinder should look and function.

On Thornton's next visit to the plant

another conference was held. The drawings were pinned up on the walls of the conference room and multiple copies of them were distributed. With this visual tool of three-dimensional drawings to study, good ideas were quickly recognized and bad ones eliminated.

Dollars were saved double when the engineers and draftsmen saved hours of work on ideas which would have been later discarded. Again, the valuable cross-fertilization of ideas took place as a natural result.

Introducing Mock-up Model

After Guy had made the final drawings at his desk in the plant and they were approved, he had another cost-saving tool to offer. Working with his associates back at his home office, the design associates made a realistic mock-up of the grinder, an exact scale model made of wood and carefully painted. When this mock-grinder was set up in the conference room, the sales people, the engineers, and the executives saw exactly how it would look. With all the aspects of convenience, safety, and workability that come under the heading of "human engineering" in their minds, they studied it, walked around it and tried the controls.

The industrial designer's responsibility continues right through all the processes of development, engineering and merchandising. When he comes in on a regular schedule he is right on tap to work out problems with everyone working on the product. He acts as a cohesive force for ideas as they arise, and in so doing, he is able to save thousands of dollars for the companies he serves.

The manufacturer can profit further when he uses his industrial design team in this way. When the designer does most of his creative work right in the plant, he is, in effect, an "outsider working on the inside." Because of his broad contacts in industry he serves as a stimulant—a kind of revitalizing force—to the thinking of all the people working with him.

The artistic and aesthetic considerations are of paramount importance in the use of industrial design in industry. But in relating the industrial design profession to the economic situation we are living through, the practical aspects should be stressed. Put bluntly, the industrial designer is employed for one simple reason: To increase the profits of his client company. He can do this through the cost savings methods we have talked about, by helping to create products that will work better and last longer, products that are attractive, and above all, products that people can afford to buy.

No Room for Snobbishness

(Continued from page 45)

The ultimate solution, after all, may be simple: To stop psychoanalyzing our problems and continue building our national future with all proven skills our technicians and engineers possess. To accomplish our objective we need increased incentives and better training courses for our youth. If we are to win our life and death struggle with Communist Russia for economic and technical supremacy we can no longer afford to countenance snobbishness by a single group on the scientific team upon whose varied capabilities we depend for victory.

U. S. Electrical Motors, Inc. Observes Golden Anniversary

(Continued from page 11)

The Company's 50th Anniversary brochure is handsomely printed and richly illustrated in full color, featuring the commemorative U. S. Medallion and the five leading motor lines. It presents the company's philosophy, a chronology of its design and developmental achievements, pictures of its six major plants and facilities, and illustrations of various steps in motor manufacture. The brochure is available free upon request to U. S. Electrical Motors Inc., P. O. Box 2058 Terminal Annex, Los Angeles 54, California.

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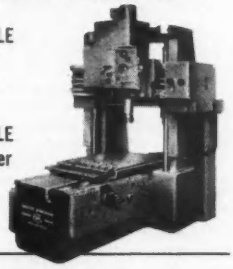

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Accounting Forms
Baker-Goodyear Co The — Branford

Accounting Machines
Underwood Corporation — Bridgeport

Adding Machines
Underwood Corporation — Bridgeport

Adhesives
Polymer Industries Inc — Springdale
Raybestos Division Raybestos-Manhattan Inc — Bridgeport

Advertising Mats
Lockwood Sons Inc Wm H — Hartford

Advertising Plates
Lockwood Sons Inc Wm H — Hartford

Advertising Specialties
H C Cook Co The 32 Beaver St — Ansonia

Aerosol Products
Bridgeport Brass Company — Bridgeport

Air Compressors
Spencer Turbine Co The — Hartford

Air-Conditioning
Dunham-Bush Inc — West Hartford
Norwalk Airconditioning Corp — South Norwalk

Air Ducts
Wiremold Co The (Retractable) — Hartford

Air Heaters—Direct Fired
Peabody Engineering Corporation — Stamford

Air Impellers
The Torrington Manufacturing Co — Torrington

Aircraft
Sikorsky Aircraft Division United Aircraft Corporation (helicopters) — Bridgeport

Aircraft Accessories
Chandler Evans Div Pratt & Whitney Co Inc (Piston and Jet Engine Accessories—Carburetors, Fuel Controls, Afterburner Regulators, Pumps, Servomechanisms and Protek Plugs) — West Hartford
Consolidated Controls Corp — Bethel
Fenn Mfg Co The (Hardened and Ground **Gears assemblies**) — **Newington**
Gabb Special Products Inc (filler caps—pressure fuel servicing systems) — Windsor Locks
Hamilton Standard Div United Aircraft Corp (propellors and other aircraft equipment) — Windsor Locks

Aircraft Engine Timing Tools
Gabb Special Products Inc — Windsor Locks

Aircraft Engines
Lycoming Division Avco Manufacturing Corp — Stratford
Pratt & Whitney Aircraft Div United Aircraft Corp (aircraft) — East Hartford

Aircraft Fasteners
Bland Burner Co The Thread Products Div — Hartford
Scovill Manufacturing Company (PANELOC Aircraft Fasteners) — Waterbury

Aircraft Instruments
Gorn Electric Company Inc — Stamford

Aircraft—Repair & Overhaul
Airport Department Pratt & Whitney Aircraft Division — Rentschler Field East Hartford

Aircraft Test Equipment
United Manufacturing Co Division of The W L Maxson Corp — Hamden

Alumilite Aluminum Sheets
Leed Co The H A — Hamden

Aluminum Bronze Castings
Knapp Foundry Company Inc — Guilford

Aluminum Castings
Eastern Malleable Iron Company The — Naugatuck
Newton-New Haven Co 688 Third Avenue — West Haven

Aluminum Die Castings
Mt Vernon Die Casting Corporation — Stamford
Stewart Die Casting Div. Stewart-Warner Corp. — Bridgeport

Aluminum Extrusions
Bridgeport Brass Company — Bridgeport

Aluminum Forgings
Bridgeport Brass Company — Bridgeport
Consolidated Industries Inc — West Cheshire
Scovill Manufacturing Company — Waterbury 91

Aluminum Ingots
Lapides Metals Corp — New Haven

Aluminum Sand Castings
Bridgeport Deoxidized Bronze Corp — Bridgeport

Aluminum—Sheet and Rod
Scovill Manufacturing Company — Waterbury

Aluminum—Sheets & Coils
United Smelting & Aluminum Co Inc — New Haven

Ammunition
Arms and Ammunition Div Olin Mathieson Chemical Corp — New Haven

Anodizing
Aluminum Finishing Co. — **Bridgeport**
Comco Inc Div of Enthone Inc — New Haven
Leed Co The H A — Hamden

Anodizing Equipment
Comco Inc Div of Enthone Inc — New Haven

Asbestos
Auburn Manufacturing Company The (gaskets, packings, wicks) — Middletown

Asarcon Bronze
Derby Castings Company, The — Seymour
Knapp Foundry Company Inc (bushing & bearing stock) — Guilford

Assemblies—Small
Barnes Co The Wallace Div Associated Spring Corp — **Bristol**
Greist Manufacturing Co The — New Haven
Stanley Humason Inc — Forestville
J H Sessions & Son — Bristol

Audio-Visual Equipment
Victor Animatograph Corp a div of Kalart (16mm sound and silent projectors; 35mm filmstrip and sound slide film projectors) — Plainville

Automatic Buffing & Polishing Machines
Harper Buffing Machine Company The — East Hampton

Auto Cable Housing
Wiremold Company The — Hartford

Automatic Control Instruments
Bristol Co The (temperature, pressure, flow, humidity, time) — Waterbury

Automotive Bodies
Metropolitan Body Company — Bridgeport

Automotive Parts
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co (automobile thermostats) — Milford
Eis Manufacturing Co (Hydraulic and Mechanical) — Middletown
Raybestos Division of Raybestos-Manhattan Inc (Brake Lining, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber) — Bridgeport

Automotive & Service Station Equipment
Scovill Manufacturing Company (Canned Oil Dispensers) — Waterbury 91

Automotive Tools
Eis Manufacturing Company — Middletown

Bag Sealing Machines
Derby Sealers Inc — Derby

Bags—Paper
Continental Can Co Paper Container Div — Kensington

Bakelite Moldings
Watertown Mfg Co The — Watertown

Balls
Abbott Ball Co The (steel bearing and burnishing) — Hartford
Hartford Steel Ball Co The (steel bearing and burnishing, brass, bronze, monel, stainless aluminum) — Hartford
Kilian Steel Ball Corp The — Hartford
Pioneer Steel Ball Company Inc (steel for **bearings, burnishing, graining; also brass,** bronze and stainless) — Unionville
Superior Steel Ball Co Inc (steel bearings & burnishing material) — New Britain

Banbury Mixers
Farrel-Birmingham Company Inc — Ansonia

Barrels
Abbott Ball Co The (burnishing and tumbling) — Hartford
Esbec Barrel Finishing Corp (burnishing & tumbling) — Byram
Hartford-Steel Ball Co The (tumbling) — Hartford

Baskets—Wire
Rolock Inc — Fairfield

Batteries
Electrical Div Olin Mathieson Chemical Corp (flashlight, radio, hearing aid and others) — New Haven

Bearing Testers
Sperry Products Inc — Danbury

Bearings
Barden Corporation The (ball) — **Danbury**
Fafnir Bearing Co (ball) — New Britain
Marlin-Rockwell Corporation — Plainville
New Departure Div of General Motors (ball) — Bristol
Norma-Hoffman Bearings Corp (ball and roller) — Stamford

Bellows Assemblies
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co — Milford

Bellows—Metallic
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co — Milford

Bells
Bevin Brothers Mfg Co — East Hampton
N N Hill Brass Co The — East Hampton

Belt Fasteners
Saling Manufacturing Company (patented self-aligning) — Unionville

Belting
Hartford Belting Co — Hartford
Russell Mfg Co (High Speed Endless, Laminated Rubber, Roll Stock all types) — Middletown

Bends—Pipe or Tube
National Pipe Bending Co The — 160 River St New Haven

Bicycle Coaster Brakes
New Departure Div General Motors Corp — Bristol

Bicycle Sundries
New Departure Div General Motors Corp — Bristol

Blacking Salts for Metals
Enthone Inc — New Haven
Mitchell-Bradford Chemical Co — Milford

Black Oxide Finishing
Black Oxide Inc — New Britain

Black Oxide Treatment
Bennett Metal Treating Co The — 1045 New Britain Ave — Elmwood

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Capewell Manufacturing Company Metal Saw Division (hack saw and band saw) — Hartford

Blocks
Howard Company (cupola fire clay) — New Haven

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Colonial Blower Company — Plainville
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Colonial Blower Company — Plainville
Ripley Co — Middletown

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Torrington Manufacturing Company The — Torrington

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Joseph Merritt & Co — Hartford

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Bigelow Co The — New Haven

Bolts and Nuts
Clark Brothers Bolt Co — Milldale

Boring Tools
Atrax Company The (solid carbide) — Newington

Box Board
Bird & Son Inc — New Britain
Continental Can Co., Boxboard and Folding Carton Division — Montville
Federal Paper Board Co Inc — Montville, New Haven & Versailles
Lydall & Foulds Paper Co The — Manchester
New Haven Board & Carton Co The — New Haven
Robertson Paper Box Co — Montville

Boxes
Bird & Son Inc (corrugated, solid fibre, cleated containers) — New Britain
Connecticut Container Corporation — New Haven
Continental Can Co., Fibre Drum and Corrugated Box Division — Portland
Merriam Mfg Co (steel cash, bond, security, fitted tool and tackle boxes) — Durham
Middletown Mfg Co (metal) — Middletown
Warner Bros Co The (Acetate, Paper, Acetate and Paper Combinations, Counter Display, Setup) — Bridgeport

Boxes and Crates
City Lumber Co of Bridgeport Inc The — Bridgeport

Boxes—Folding
Leshine Carton Co — Branford

Boxes—Metal
Merriam Mfg Co (Bond and Security, Cash and Utility, Personal Files and Drawer Safes) — Durham
Scovill Manufacturing Company (aluminum, brass, bronze, copper-cosmetic, drug, hair pin, ointment, pill, powder, rouge, vanity) — Waterbury

Boxes—Paper—Folding
Atlantic Carton Corp — Norwich
Bridgeport Paper Box Co — Bridgeport
Carpenter-Hayes Paper Box Co Inc — East Hampton
Continental Can Co., Boxboard and Folding Carton Division — Montville
Curtis & Sons Inc S — Sandy Hook
Folding Cartons Incorporated (paper, folding) — Versailles
H J Mills Inc — Bristol
National Folding Box Co Div Federal Paper Board Co Inc (paper folding) — New Haven and Versailles
New Haven Board & Carton Co The — New Haven
Robertson Paper Box Co — Montville
Warner Bros Co The — Bridgeport

Boxes—Paper—Setup
Bridgeport Paper Box Co — Bridgeport
Heminway Corporation The — Waterbury
H J Mills Inc — Bristol
Strouse Adler Company The — New Haven
Warner Bros Co The — Bridgeport

Brake Cables
Eis Manufacturing Co — Middletown

Brake Linings
Raybestos Division of Raybestos-Manhattan Inc (Automotive and Industrial) — Bridgeport
Russell Mfg Co (all types, Fused Fabric, Durak, Wireback, Extruded) — Middletown

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Eis Manufacturing Co — Middletown

Brass & Bronze
American Brass Co The (sheet, wire, rods, tubes) — Waterbury
Bridgeport Rolling Mills Company (coil, sheet, strip) — Bridgeport
Bridgeport Brass Company (sheet, rod, wire and tubing) — Bridgeport
Bristol Brass Corp The (sheet, wire, rods) — Bristol
Chase Brass & Copper Co — Waterbury
Miller Company The (phosphor bronze and brass in sheets, strips, rolls) — Meriden
Plume & Atwood Mfg Co The (sheet, wire, rod) — Thomaston
Scovill Manufacturing Company — Waterbury 91
Seymour Mfg Co The (strip, sheet & wire) — Seymour
Tinsheet Metals Co The (sheets and rolls) — Waterbury
Western Brass Mills Division of Olin Industries Inc (sheet, strip) — New Haven

Brass & Bronze Ingot Metal
Mitchell Smelting & Refining Co Inc — Botsford
Plume & Atwood Mfg Co The — Thomaston
Whipple and Choate Company The — Bridgeport

Brass, Bronze, Aluminum Castings
Derby Castings Company, The — Seymour
Victors Brass Foundry Inc — Guilford

Brass Goods
American Brass Company The — Waterbury
Plume & Atwood Mfg Co The (to order) — Waterbury
Rostand Mfg Co The (Ecclesiastical Brass Wares) — Milford
Scovill Manufacturing Company (to order) — Waterbury 91
Western Brass Mills Div Olin Mathieson Chemical Corp — New Haven

Brass Mill Products
American Brass Company The — Waterbury
Bridgeport Brass Co — Bridgeport
Chase Brass & Copper Co — Waterbury
Plume & Atwood Mfg Co The — Thomaston
Scovill Manufacturing Company — Waterbury 91
Western Brass Mills Div Olin Mathieson Chemical Corp — New Haven

Breathing Equipment
Cycle-Flo Company The — Milford

Brick-Building
Donnelly Brick Co The — New Britain

Bricks—Fire
Howard Company — New Haven
Mullite Works Refractories Div H K Porter Co Inc — Shelton

Bright Wire Goods
Sargent & Company (Screw Eyes, Screw Hooks, Cup Hooks, Hooks and Eyes, C H Hooks) — New Haven

Broaching
Hartford Special Machinery Co The — Hartford

Bronze & Aluminum Castings
Knapp Foundry Company Inc (rough or machined) — Guilford

Bronze Sand Castings
Bridgeport Deoxidized Bronze Corp — Bridgeport

Brooms—Brushes
Fuller Brush Co The — Hartford

Buckles
B Schwanda & Sons — Staffordville
Hawie Mfg Co The — Bridgeport
North & Judd Manufacturing Co — New Britain
Patent Button Co The — Waterbury
Risdon Manufacturing Co John M Russell Div — Naugatuck

Buffing & Polishing Compositions
Apothecaries Hall Company Division The Hubbard Hall Chemical Company — Waterbury
Lea Mfg Co — Waterbury

Building Materials
City Lumber Co of Bridgeport Inc — Bridgeport

Burners
Plume & Atwood Mfg Co The (kerosene oil lighting) — Thomaston

Burners—Automatic
Peabody Engineering Corporation — Stamford

Burners—Coal and Oil
Peabody Engineering Corporation (Combined) — Stamford

Burners—Gas
Peabody Engineering Corporation (Blast Furnace) — Stamford

Burners—Gas and Oil
Peabody Engineering Corporation (Combined) — Stamford

Burners—Refinery
Peabody Engineering Corporation (For Gas and Oil) — Stamford

Burnishing
Abbott Ball Co The (Burnishing Barrells and Burnishing Media) — Hartford
Pioneer Steel Ball Company Inc (balls, cones, other metallic shapes) — Unionville

Burs
Atrax Company The (carbide) — Newington
Pratt & Whitney Co Inc — West Hartford

Busways
Distribution Assemblies Department General Electric Co — Plainville

Buttons
B Schwanda & Sons — Staffordville
Frank Parizek Manufacturing Co The — Putnam
Patent Button Co The — Waterbury
Scovill Manufacturing Company (Uniform and Tack Fasteners) — Waterbury 91
Waterbury Companies Inc (Uniform and Fancy Dress) — Waterbury

Cabinet Work
Hartford Builders Finish Co — Hartford

Cable—Asbestos Insulated
Rockbestos Products Corp — New Haven

Cable-Interlocked Armor
General Electric Company — Bridgeport

Cable—Nonmetallic Sheathed
General Electric Company — Bridgeport

Cable—Service Entrance
General Electric Company — Bridgeport

Cages
Andrew B Hendryx Co The (bird and animal) — New Haven

Cams
American Cam Company Inc — Hartford
Hartford Special Machinery Co The — Hartford
Rowbottom Machine Company Inc — Waterbury

Cams, 2 Dimensional
Mallory Industries, Inc. — West Hartford
Parker-Hartford Corporation — Hartford

Cams, 3 Dimensional
Mallory Industries, Inc. — West Hartford
Parker-Hartford Corporation — Hartford

Canvas Products
F B Skiff Inc — Hartford

Capacitors
Electro Motive Mfg Co Inc The (mica & trimmer) — Willimantic

Carbide Drawing Dies
State Products Co (eyelet special shape dies) — Oakville

Carbide Shape Dies
Thomaston Tool & Die Co (any form) — Thomaston

Carbide Tools
Atrax Company The (solid) — Newington
Precision Tool & Die Co — Waterbury

Carbon Pile Type Resistors
Engineered Metals — Manchester

Card Clothing
Standard Card Clothing Co The (for textile mills) — Stafford Springs

Card Indexes
Wassell Organization Inc — Westport

Carpenter's Tools
Sargent & Company (Planes, Squares, Plumb Bobs, Bench Screws, Clamps and Saw Vices) — New Haven

Carpet Cushion
B F Goodrich Sponge Products Division — Shelton

Carpets and Rugs
Bigelow-Sanford Carpet Co — Thompsonville

Carton Closure Equipment
Better Packages Inc ("Tape-O-Matic," "Better Pack") — Shelton

Casters
Bassick Company The (Industrial and General) — Bridgeport

Castings
Connecticut Foundry Co (grey iron) — Rocky Hill
Connecticut Malleable Castings Co (malleable iron castings) — New Haven
Ductile Iron Foundry Inc — Stratford
Eastern Malleable Iron Company The (malleable iron, metal and alloy) — Naugatuck
Farrel-Birmingham Company Inc (Meehanite, Nodular, Iron, Steel) — Ansonia
H R Engineering Laboratories Inc (centrifugal, steel mold) — East Haddam
Hartford Electric Steel Corp The (carbon, low alloy and stainless steel castings) — Hartford
Malleable Iron Fittings Co (malleable iron and steel) — Branford
McLagon Foundry Co (grey iron) — New Haven
Newton-New Haven Co (zinc and aluminum) — 688 Third Ave West Haven
Nutmeg Crucible Steel Co (steel) — Branford
Plainville Casting Company (gray, alloy and high tensile irons) — Plainville
Producto Machine Company The — Bridgeport
Sako Aluminum Castings Inc — Fairfield
Scovill Manufacturing Company (Brass & Bronze) — Waterbury 91
Turner & Seymour Mfg Co The (gray iron, semi steel and alloy) — Torrington
Union Mfg Co (grey iron & semi steel) — New Britain
Waterbury Foundry Company The (highway & sash weights) — Waterbury
Wilcox Crittenden & Co Inc (gray iron and brass) — Middletown

(Advt.)

Castings—Investment
Arwood Precision Casting Corp — Groton

Cements—Refractory
Mullite Works Refractories Div H K Porter Co Inc — Shelton

Centerless Grinding
Winsted Centerless Co — Winsted

Centers
Ready Tool Co The (anti friction, carbide tipped, high speed) — Stratford

Centrifugal Pumps
Hamco Inc (gasoline or electric driven) — New Haven

Cermets
Russell Mfg Co (for missiles, and for friction materials) — Middletown

Chain
Risdon Manufacturing Co John M Russel Div — Naugatuck
Turner and Seymour Mfg Co The (weldless, sash, jack, safety, furnace, universal, lion and cable) — Torrington

Chain—Bead
Auto-Swage Products Inc — Shelton
Bead Chain Mfg Co The — Bridgeport

Chain—Power Transmission and Conveying
Whitney Chain Company — Hartford

Chairs
The Hitchcock Chair Company — Riverton

Chemical Manufacturing
Carwin Company The — North Haven

Chemicals
Apothecaries Hall Company Division — Waterbury
The Hubbard Hall Chemical Company — Waterbury
Axton-Cross Co — Shelton
Carwin Company The — North Haven
Macalaster Bicknell Company — New Haven
MacDermid Incorporated — Waterbury
Naugatuck Chemical Division United States Rubber Co — Naugatuck
New England Lime Company — Canaan
Pfizer & Co Inc Chas — Groton
United States Chemical Corp (maintenance and powdered hand soap, floor waxes, cleaners, disinfectants, fuel additives) — New Haven

Chemicals—Agriculture
Naugatuck Chemical Division United States Rubber Co (insecticides, fungicides, weed killers) — Naugatuck

Chemists—Anaylitical and Consulting
Bridgeport Testing Laboratory Inc — Bridgeport

Christmas Light Clips
Foursome Manufacturing Co — Bristol

Chromium Plating
Chromium Corp of America — Waterbury
Chromium Process Company The — Shelton

Chucks
Cushman Chuck Co The — Hartford
Jacobs Manufacturing Co The — West Hartford
Union Manufacturing Company — New Britain

Chucks—Drill
Jacobs Manufacturing Co The — West Hartford

Chucks & Face Plate Jaws
Cushman Chuck Co The — Hartford
Union Mfg Co — New Britain

Chucks—Power Operated
Cushman Chuck Co The — Hartford
Union Manufacturing Company — New Britain

Circuit Breakers
Circuit Protective Devices Dept., General Electric Co. — Plainville

Circulating Pumps
Corley Co Inc The — Plainville

Clay
Howard Company (Fire Howard "B" and High Temperature Dry) — New Haven

Cleaning Compounds
Enthone Inc (Industrial) — New Haven
MacDermid Incorporated — Waterbury

Clock Mechanisms
Lux Clock Mfg Co The — Waterbury

Clocks
E Ingraham Co The — Bristol
Seth Thomas Clocks — Thomaston
United States Time Corporation The — Waterbury

Clocks—Alarm
Lux Clock Mfg Co The — Waterbury

Clocks—Automatic Cooking
Lux Clock Mfg Co The — Waterbury

Clutches
Snow-Nabstedt Gear Corp The — New Haven

Clutch Facings
Raybestos Division of Raybestos-Manhattan Inc (Molded, Woven, Semi-metallic and Full-metallic) — Bridgeport
Russell Mfg Co (rubber Shock Cord—all sizes and types) — Middletown

Coatings
Bischoff Chemical Corporation (Peelable Plastic Coatings) — Ivoryton

Coil Winding Machines
Boesch Mfg Co Inc — Danbury

Coils—Electric
Bittermann Electric Company — Canaan

Coils—Pipe or Tube
National Pipe Bending Co The — 160 River St New Haven
Whitlock Manufacturing Co The — Hartford

Cold Molded Electrical Insulation
Meriden Molded Plastics — Meriden

Commercial Heat Treating
A F Holden Company The — 52 Richard St West Haven

Commercial Truck Bodies
Metropolitan Body Company — Bridgeport

Compacts
Scovill Manufacturing Company (powder and rouge) — Waterbury

Comparators
Pratt & Whitney Co Inc (Electro-limit and Air-O-Limit) — West Hartford

Compressors
Norwalk Company Inc (high pressure air and gas) — South Norwalk

Computers
Newton Co The (electronic) — Manchester
Reflectone Corporation The — Stamford

Concrete Products
Plastricrete Corp — Hamden

Condenser and Heat Exchanger Tubes
Bridgeport Brass Company — Bridgeport
Scovill Manufacturing Company — Waterbury

Cones
Sonoco Products Co (Climax-Lowell Div) (Paper) — Mystic

Connector
Gorn Electric Co Inc (precision miniature electrical and printed circuit) — Stamford

Consulting Engineers
McNeal J D (Electrical and Electronic) — New Haven
Stanley P Rockwell Co Inc The (Consulting) 296 Homestead Ave — Hartford

Continuous Mill Gages
Pratt & Whitney Co Inc — West Hartford

Contract Machining
Laurel Mfg Co Inc (Precision Production Small Parts) — Plainville
Malleable Iron Fittings Company — Branford

Contract Manufacturers
Fenn Mfg Co The (Precision Machine Work) — Newington
Greist Mfg Co The (metal parts and assemblies) 503 Blake St — New Haven
Merriam Mfg Co (production runs—metal boxes and containers to specifications) — Durham
Plume & Atwood Mfg Co The (metal parts and assemblies) — Thomaston
Scovill Manufacturing Company (metal parts and assemblies) — Waterbury 91
J H Sessions & Son — Bristol

Controllers
Bristol Company The — Waterbury
Manning Maxwell & Moore Inc — Stratford

Controls—Remote
Panish Controls (Remote Controls for Marine & Aeronautic Applications) — Bridgeport

Controls Remote, Hydraulic
Sperry Products Inc — Danbury

Converters DC to AC
Electric Specialty Co — Stamford

Conveyor Systems
Hayes-Te Equipment Corp Connecticut Conveyor Division (Conn-Veyor) — Unionville
Leeds Conveyor Mfg Co The — East Haven
Production Equipment Co — Meriden

Copper
American Brass Corp The (sheet, wire, rods, tubes) — Waterbury
Bridgeport Brass Company (sheet, rod, wire and tubing) — Bridgeport
Bristol Brass Corp The (steel) — Bristol
Chase Brass & Copper Co (sheet, rod, wire tube) — Waterbury
Thinsheet Metals Co The (sheets and rolls) — Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp — New Haven

Copper Castings
Knapp Foundry Company Inc — Guilford

Copper Sand Castings
Bridgeport Deoxidized Bronze Corp — Bridgeport

Copper Sheets
American Brass Company The — Waterbury
New Haven Copper Co The — Seymour

Copper Shingles
New Haven Copper Co The — Seymour

Copperware
Bridgeport Brass Company (cooking utensils) — Bridgeport

Copper Water Tube
American Brass Company The — Waterbury
Bridgeport Brass Co — Bridgeport

Cord
Russell Mfg Co The (marine & aero shock) — Middletown

Cords—Asbestos Insulated
General Electric Company — Bridgeport

Cords—Braided
General Electric Company — Bridgeport

Cords—Heater
General Electric Company — Bridgeport

Cords—Portable
General Electric Company — Bridgeport

Cord Sets—Electric
General Electric Company — Bridgeport
Seeger-Williams Inc — Bridgeport

Cork Cots
Sonoco Products Co (Climax-Lowell Div) — Mystic

Correspondence Files
Wassell Organization Inc — Westport

Corrugated Box Manufacturers
Connecticut Container Corporation — New Haven
Corrugated Containers Inc — Hartford

Corugated Shipping Cases
Connecticut Container Corporation — New Haven
Continental Can Co., Fibre Drum and Corrugated Box Division — Portland
D L & D Container Corp — 87 Shelton Ave New Haven

Cosmetic Containers
Eyelet Specialty Co The — Waterbury
Plume & Atwood Mfg Co The (metal) — Thomaston
Scovill Manufacturing Company — Waterbury

Cosmetics
J B Williams Co The — Glastonbury

Cotton and Asbestos Wicking
Bland Burner Co The — Hartford

Counting Devices
Veeder-Root Inc — Hartford

Couplings
Scovill Manufacturing Company (hose and tube) — Waterbury

Crushers
Farrel-Birmingham Company Inc (Stone and Ore) — Ansonia

Cups—Paper
Continental Can Co Paper Container Div — Kensington

Cushioning for Packaging
Gilman Brothers Co The — Gilman

Cut Stone
Dextone Company — New Haven

Cutters
Atrax Company The (solid carbide) — Newington
Mitrametric Co The (ground pinion) — Torrington
Pratt & Whitney Co Inc (Milling Cutters all types) — West Hartford

Cutting & Creasing Rule
Bartholomew Co H J — Bristol

Decalcomanias
Sirocco Screenprints — New Haven

Deep Hole Drilling & Reaming
Hamden Deep Hole Drilling Co — Hamden
Wilson Arms Co The — Hartford

(Advt.)

Deep Drawings
Stanley Pressed Metal — New Britain

Delayed Action Mechanism
M H Rhodes Inc — Hartford
R W Cramer Company Inc The — Centerbrook

Demineralizers
Crystal Research Laboratories — Hartford

Design
Designers for Business and Industry (product design-appearance) — New Haven

Design & Drafting Service
Smith & Winchester Mfg Co The — South Windham

Diamonds—Industrial
Diamond Tool and Die Works — Hartford

Dictating Machines
Dictaphone Corporation — Bridgeport
Gray Manufacturing Company The — Hartford
SoundScriber Corporation The — New Haven

Die Cast Dies
C & F Tool & Die Corp — Bridgeport

Die Castings
Newton-New Haven Co Inc — New Haven

Die Casting Dies
ABA Tool & Die Co — Manchester
Eastern Machine Screw Corp The — Truman & Barclay Sts, New Haven
Weimann Bros Mfg Co The — Derby

Die Heads—Self Opening
Eastern Machine Screw Corp The — New Haven
Geometric Tool Division, Greenfield Tap & Die Corp — New Haven

Die Polishing Machinery
Hartford Special Machinery Co The — Hartford

Die Sets
Pratt & Whitney Co Inc (Precision) — West Hartford
Producto Machine Company The — Bridgeport
Union Mfg Co (precision, steel and semi-steel) — New Britain

Die Sinkers
Pratt & Whitney Co Inc — West Hartford

Dies
Hoggson & Pettis Mfg Co The — 141 Brewery St, New Haven
Mitrametric Co The (ground for gears) — Torrington
Pratt & Whitney Co Inc (Monocone and Ducone Dies) — West Hartford

Dies & Die Cutting
Douglas Co Geo M — New Haven

Display Containers
National Folding Box Co Div Federal Paper Board Co Inc (folding paperboard) — New Haven and Versailles

Displays—Design & Production
Ad-Craft Displays, Inc. — Bloomfield
Stifel & Kufta — New Britain

Displays—Metal
Durham Mfg Co The (Designing & Mfg to customers' specifications) — Durham
Merriam Mfg Co (Contract Work to Individual Specifications) — Durham
Parsons Co Inc W A (custom designed)

Distribution Centers
Distribution Assemblies Department, General Electric Co — Plainville

Door Closers
Sargent & Company — New Haven
Yale & Towne Mfg Co The — Stamford

Doors
Bilco Co The (metal, residential and commercial) — West Haven

Dowel Pins
Allen Manufacturing Co The — Hartford
Holo-Krome Screw Corp The — West Hartford

Drafting Accessories
Joseph Merritt & Co — Hartford

Draft Inductors
Corley Co Inc The — Plainville

Drill Presses
Townsend Mfg Co The H P — Elmwood

Drilling Machines
Howe & Fant Inc (Turret Type) — East Norwalk
Pratt & Whitney Co Inc (Deep Hole) — West Hartford

Drilling and Tapping Machinery
Hartford Special Machinery Co The — Hartford

Drop Forgings
Atwater Mfg Co — Plantsville
Billings & Spencer Co The — Hartford
Consolidated Industries — West Cheshire
Wilcox Crittenden & Co Inc — Middletown

Druggists' Rubber Sundries
Seamless Rubber Company The — New Haven

Duplicating Machines—Automatic
Pratt & Whitney Co Inc — West Hartford

Duplicator Tables
Regent Machine Co — Bridgeport

Elastic
Russell Mfg Co (rubber shock cord—all sizes and types) — Middletown

Electric Cables
General Electric Company (for residential, commercial and industrial applications) — Bridgeport
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Cord Springs
Bristol Spring Manufacturing Co — Plainville

Electric Cords
General Electric Company — Bridgeport
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Eye Control
Ripley Company Inc — Middletown

Electric Fixture Wire
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Hand Irons
Winsted Hardware Mfg Co (trade mark "Durabilt") — Winsted

Electric Heating Elements
Hartford Element Co — Hartford

Electric Ignition Harnesses
General Electric Company — Bridgeport

Electric Insulation
Case Brothers Inc — Manchester
Stevens Paper Mills Inc The — Windsor

Electric Lighting Fixtures
Fan-Craft Mfg Co (residential, church, post lanterns) — Plainville
Plume & Atwood Mfg Co The — Thomaston
Wasley Products Inc — Plainville

Electric Motor Controls
Arrow-Hart & Hegeman Electric Co The — Hartford

Electric Motor Winding
Monarch Electric Co (3 phase industrial motors) — New Britain

Electric Motors
Monarch Electric Co (Allis Chalmers) — New Britain

Electric Signs
Berger Sign Co — Hartford

Electric Switches
Arrow-Hart & Hegeman Electric Co The — Hartford

Electric Time Controls
Cramer Controls Corporation The — Centerbrook

Electric Underfloor Duct System
General Electric Company — Bridgeport

Electric Wire
General Electric Company — Bridgeport
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Wiring Devices
Arrow-Hart & Hegeman Electric Co The — Hartford

Electrical Appliances
Iona Manufacturing Company The — Manchester

Electrical Conduit Fittings & Grounding Specialties
Gillette-Vibber Company The — New London

Electrical Control Apparatus
Plainville Electrical Products Co The — Plainville

Electical Controls
Monarch Electric Co (Allis Chalmers) — New Britain

Electrical Motors
Electric Specialty Co — Stamford
Iona Manufacturing Company The — Manchester
U S Electrical Motors Inc — Milford

Electrical Recorders
Bristol Co The — Waterbury

Electrical Relays and Controls
Allied Control Co — Plantsville

Electrical Switchboards
Plainville Electrical Products Co The — Plainville
Pneumatic Applications Co — Simsbury

Electrical Test Equipment
McNeal J D — New Haven

Electrical Wiring Systems
Wiremold Co The — Hartford

Electronic Parts
Patent Button Company The — Waterbury
Prentice Mfg Co The G E (stampings to customers' specifications) — Kensington
Terryville Manufacturing Co (Stampings to customer specifications) — Terryville

Electronics
Gray Manufacturing Company The — Hartford
McNeal J D — New Haven
Middletown Mfg Co (metal cabinets, chassis panels, brackets, cases) — Middletown
Newton Co The — Manchester
Ripley Co — Middletown
Sturrup Larabee & Warmers Inc — Middletown

Electroplating
Giering Metal Finishing Inc — Hamden
National Sherardizing & Machine Co — Hartford
Waterbury Plating Company — Waterbury

Electroplating—Equipment & Supplies
Apothecaries Hall Company Division The Hubbard Hall Chemical Company — Waterbury
Comco Inc Div of Enthone Inc — New Haven
Lea Manufacturing Co The — Waterbury
MacDermid Incorporated — Waterbury

Electroplating Processes & Supplies
Enthone Inc — New Haven

Electrotypes
Barnum-Hayward Electrotype Co Inc — New Haven
Lockwood Sons Inc Wm H — Hartford
New Haven Electrotype Div Electrographic Corp — New Haven

Elevators
Eastern Elevator Co (passenger and freight) — New Haven
General Elevator Service Co — Hartford

Enameling
Giering Metal Finishing Inc — Hamden
Waterbury Plating Company — Waterbury

Enamels & Lacquers
Dobbs Chemical Co The (industrial finishes to customers' specifications) — New Haven

End Milling Cutters
Pratt & Whitney Co Inc — West Hartford

End Mills
Atrax Company The (solid carbide) — Newington

Engraving—Plastic and Nonferrous Metals
Salisbury Products Inc — Lakeville

Envelopes
Curtis 1000 Inc — Hartford
United States Envelope Company Hartford Division — Hartford

Envelopes—Stock and Special
Continental Can Co Paper Container Div — Kensington

Extractors—Tap
Walton Company The — West Hartford (Advt.)

Extruders and Accessories
Standard Machinery and Davis-Standard Divisions of Franklin Research Corp Mystic

Eyelets
American Brass Company The Waterbury
Mark Eyelet & Stamping Co (small—metal stampings) Wolcott
Platt Bros & Co The P O Box 1030 Waterbury
Plume & Atwood Mfg Co The Thomaston
Scovill Manufacturing Company Waterbury 91
Stevens Co Inc Waterbury
Waterbury Companies Inc Waterbury

Eyelets, Ferrules and Wiring Terminals
American Brass Company The Waterbury
Waterbury Companies Inc Waterbury

Eyelet Machine Products
American Brass Company The Waterbury
Ball & Socket Mfg Co The West Cheshire
Cold Forming Mfg Co The Waterbury
Plume & Atwood Mfg Co The Thomaston
Stevens Co Inc Waterbury
Waterbury Companies Inc Waterbury

Fabricators
Scovill Manufacturing Company (aluminum, brass, bronze, copper, steel) Waterbury

Fabrics
Russell Mfg Co (Teflon, Moulded Fabric, Bearing Surfaces, High Temperature Fabrics) Middletown

Fan Blades
Torrington Manufacturing Company The Torrington

Fancy Dress Buttons and Buckles
Waterbury Companies Inc Waterbury

Fans—Electric
General Electric Company Bridgeport
Monarch Electric Co (attic, industrial and ventilating) New Britain

Fasteners—Aircraft
Scovill Manufacturing Company (PANELOC Aircraft Fasteners) Waterbury

Fasteners—Laundry Proof
Scovill Manufacturing Company (GRIPPER snap fasteners) Waterbury

Fasteners—Slide & Snap
G E Prentice Mfg Co The Kensington
Scovill Manufacturing Company (GRIPPER zippers and GRIPPER snap fasteners) Waterbury

Felt
Auburn Manufacturing Company The (mechanical, cut parts) Middletown
Dryeor Felt Company (paper makers and industrial) Staffordville

Felt—All Purpose
American Felt Co (Mill & Cutting Plant) Glenville
Chas W House & Sons Inc (Mills & Cutting Plant) Unionville

Fenders—Boat
B F Goodrich Sponge Products Division Shelton

Fiber-glass Fabrication
Davis Co The E J West Haven

Fibre Board
Bird & Son Inc New Britain
Case Brothers Inc Manchester
Colonial Board Company Manchester
C H Norton Co The North Westchester
Stevens Paper Mills Inc The Windsor

File Cards
Standard Card Clothing Co The Stafford Springs

Filing Equipment
Wassell Organization Inc Westport

Filters—Fluid
Cuno Engineering Corp The Meriden

Filters—Liquid
Alsop Engineering Corporation Milldale

Finger Nail Clippers
H C Cook Co The 32 Beaver St Ansonia

Firearms
Colt's Patent Fire Arms Mfg Co Inc Hartford
Junior Screw Machine Products Inc West Haven
Marlin Firearms Co The New Haven
O F Mosberg & Sons Inc New Haven
Arms and Ammunition Div Olin Mathieson Chemical Corp New Haven

Firearms Accessories
Poly Choke Co Inc The East Hartford

Fire Alarm Systems
Fire-Lite Alarms Inc New Haven

Fire Hose
Fabrics Fire Hose (municipal and industrial) Sandy Hook

Fireplace Goods
American Windshield & Specialty Co The 881 Boston Post Road Milford
John P Smith Co The (screens) 423-33 Chapel St New Haven

Fireproof Floor Joists
Dextone Company New Haven

Fireworks
M Backes' Sons Inc Wallingford

Fishing Tackle
H C Cook The 32 Beaver St Ansonia

Flashlights
Bridgeport Metal Goods Mfg Co Bridgeport
Electrical Div Olin Mathieson Chemical Corp New Haven

Flat Springs
Bristol Spring Manufacturing Co Plainville
Gemco Manufacturing Co Inc Southington

Flexible Shaft Machines
Pratt & Whitney Co Inc West Hartford

Float Switches
Gorn Electric Co Inc (for aircraft and commercial use) Stamford

Floor & Ceiling Plates
Beaton & Cadwell Mfg Co The New Britain

Fluorescent Lighting Equipment
Fullerton Manufacturing Corp Norwalk
Vanderman Manufacturing Co The Willimantic
Wiremold Company The Hartford

Foam Rubber
Armstrong Rubber Company The West Haven

Forgings
Atwater Manufacturing Company Plantsville
Billings & Spencer Company Hartford
Capewell Manufacturing Company Hartford
Clark Brothers Bolt Co Milldale
Consolidated Industries Inc West Cheshire
Heppenstall Co (all kinds and shapes) Bridgeport
Scovill Manufacturing Company (Non-ferrous) Waterbury 91

Foundries
Connecticut Malleable Castings Co (malleable iron castings) New Haven
Derby Castings Company, The Seymour
Ductile Iron Foundry Inc Stratford
Farrel-Birmingham Company Inc (Iron and Steel) Ansonia
Hartford Electric Steel Corp The Hartford
Malleable Iron Fittings Co (Malleable Iron and Steel Castings) Branford
Plainville Casting Company (gray, alloy and high tensile irons) Plainville
Producto Machine Company The Bridgeport
Smith & Winchester Mfg Co The South Windham
Turner & Seymour Mfg Co The (gray, iron, semi steel and alloy) Torrington
Union Mfg Co (gray iron & semi steel) New Britain
Wilcox Crittenden & Co Inc (iron, brass, aluminum and bronze) Middletown

Fountain Pens and Mechanical Pencils
Waterman Pen Company Inc Seymour

Foundry Riddles
John P Smith Co The 423-33 Chapel St New Haven

Four Slide Forms
Peck Spring Co Plainville

Frames—Hack Saw
Thompson & Son Co The Henry G New Haven

Fuel Oil Pump and Heater Sets
Peabody Engineering Corporation Stamford

Furnaces
Norwalk Airconditioning Corp South Norwalk

Gage Blocks
Pratt & Whitney Co Inc (Alloy steel and Carbide, Hoke and USA) West Hartford

Galvanizing
Malleable Iron Fittings Co Branford
Wilcox Crittenden & Co Inc Middletown

Gaskets
Auburn Manufacturing Company The (from all materials) Middletown
Raybestos Division of Raybestos-Manhattan Inc Bridgeport

Gaskets—Insulation
American Felt Co Glenville

Gas Range Conversion Burner
Holyoke Heater Corp of Conn Inc Hartford

Gas Scrubbers, Coolers and Absorbers
Peabody Engineering Corporation Stamford

Gauges
Bristol Co The (pressure and vacuum-recording automatic control) Waterbury
Helicoid Gage Division American Chain & Cable Co The (pressure and vacuum) Bridgeport
Manning Maxwell & Moore Inc Stratford
New Haven Trap Rock Co The Machine Products Div (Johan Universal and Special Purpose Gauge) North Branford
Pratt & Whitney Co Inc (Precision Measurement all types) West Hartford

Gears
Mitrametric Co The (blanked fine pitch) Torrington

Gears and Gear Cutting
Farrel-Birmingham Company Inc Ansonia
Fenn Mfg Co The Newington
Hartford Special Machinery Co The Hartford
United Gear & Machine Co Suffield

Generators
Hamco Inc (electric, portable, gasoline driven) New Haven

Glass Blowing
Macalaster Bicknell Company New Haven

Glass Cutters
Fletcher-Terry Co The Forestville

Greeting Cards
A D Steinbach & Sons Inc New Haven

Grinding
Farrel-Birmingham Company Inc (Roll and Cylindrical) Ansonia
Hartford Special Machinery Co The (gears, threads, cams and splines) Hartford
Horberg Grinding Industries Inc (Precision custom grinding; centerless, cylindrical, surfaces, internal and special) 19 Staples St Bridgeport

Grinding Heads—Internal
Pratt & Whitney Co Inc (Pneumatic, High Speed) West Hartford

Grinding Machines
Farrel-Birmingham Company Inc (Roll) Ansonia
Pratt & Whitney Co Inc (Surface, Die, Gear and Cutter Grinders) West Hartford
Rowbottom Machine Company Inc (cam) Waterbury

Grommets
American Brass Company The Waterbury
Plume & Atwood Mfg Co The Waterbury

Guards for Machinery
Wheeler Co The G E New Haven

Hack and Band Saw Blades
Capewell Manufacturing Co The Hartford

Hair Hygiene Preparations
Parker Herbex Corporation Stamford

Hammers—Carpenters and Machinists
Capewell Manufacturing Company Hartford

Hand Tools
Billings and Spencer Company (wrenches sockets and shop tools) Hartford
Bridgeport Hdwe Mfg. Corp The (nail pullers, scout axes, box opening tools, towels, coping saws, putty knives) Bridgeport

Hardness Testers
Wilson Mechanical Instrument Div American Chain & Cable Company Inc Bridgeport

Hardware
Bassick Company The (Automotive) Bridgeport
City Lumber Co of Bridgeport Inc Bridgeport
Gordon Associates Derby
Harlock Products Corp New Haven
Sargent & Company New Haven
Wilcox Crittenden & Co Inc (marine heavy and industrial) Middletown
Yale & Towne Mfg Co The Stamford

Hardware—Marine & Bus
Rostand Mfg Co The Milford

Hardware—Trailer Cabinet
Excelsior Hardware Co The Stamford

Hardware, Trunk & Luggage
Corbin Cabinet Lock Div American Hardware Corp New Britain
J H Sessions & Son Bristol
Yale & Towne Mfg Co The Stamford

Hat Machinery
Doran Bros Inc Danbury

Health Surgical & Orthopedic Supports
Berger Brothers Company The (custom made for back, breast and abdomen) New Haven

Heat Elements
Electroflex Heat Inc Hartford
Safeway Heat Elements Inc (woven wire resistance type) Middletown

Heat Exchangers
Whitlock Manufacturing Co The Hartford

Heat Treating
Bennett Metal Treating Co The 1045 New Britain Ave Elmwood
Commercial Metal Treating Co Bridgeport
New Britain-Gridley Machine Division The New Britain Machine Co New Britain
New Haven Heat Treating Co., Inc. New Haven
Skene Co Inc The William A (metals) Bridgeport
Stanley P Rockwell Co Inc The 296 Homestead Ave Hartford

(Advt.)

IT'S MADE IN CONNECTICUT

Heat-Treating Equipment
Barnes Co The Wallace Div Associated Spring Corp Bristol
Bauer & Company Inc Hartford
Rolock Inc (Retorts, Muffles, etc.) Fairfield
Stanley P Rockwell Co Inc The (commercial) 296 Homestead Ave Hartford

Heat Treating Fixtures
Rolock Inc (Trays, Baskets, etc.) Fairfield
Wiretex Mfg Co Inc Bridgeport

Heat Treating Salts and Compounds
Mitchell-Bradford Chemical Co Milford

Heaters—Electric
General Electric Company Bridgeport

Heating and Cooling Coils
G & O Manufacturing Co New Haven

Heating Elements
Hartford Element Co Hartford

Heavy Chemicals
Naugatuck Chemical Division United States Rubber Co (sulphuric. nitric and muriatic acids and aniline oil)

Heavy Machinery
Smith & Winchester Mfg Co The South Windham

Hex-Socket Screws
Allen Manufacturing Company The Hartford
Bristol Company The Waterbury
Holo-Krome Screw Corp The West Hartford

High Frequency Alternators
Electric Specialty Co Stamford

Highway Guard Rail Hardware
Malleable Iron Fittings Co Branford

Hinges
Homer D Bronson Company Beacon Falls

Hobs and Hobbings
ABA Tool & Die Co Manchester
Pratt & Whitney Co Inc (Die and Thread milling) West Hartford

Hoists and Trolleys
Union Mfg Company New Britain

Hose Fittings
Scovill Manufacturing Company Waterbury

Hose—Flexible Metallic
American Brass Co
American Metal Hose Branch Waterbury

Hose Supporter Trimmings
Hawle Mfg Co The (So-Lo Grip Tabs) Bridgeport

Hydraulic Brake Fluids
Eis Manufacturing Co Middletown

Hypodermic Needles
Roehr Products Company Waterbury

Impregnating
American Metaseal Inc (metal, wood, etc.) Hamden

Industrial Chrome Plating
Mirror Polishing & Buffing Co Waterbury

Industrial Displays
Sansone Co S Frederick (Designers Builders and Counselors) Short Beach

Industrial Finishes
Chemical Coatings Corporation Rocky Hill

Inhalators
Cycle-Flo Company The Milford

Inks
Waterman Pen Company Inc Seymour

Insecticides
American Cyanamid Company Waterbury

Instalment Payment Books
Wassell Organization Inc Westport

Insulated Wire & Cable
General Electric Company (for residential commercial and Industrial applications) Bridgeport
Kerite Company The Seymour

Insulated Wire & Cable Machinery
Davis Electric Company Wallingford

Instruments
Bristol Company The Waterbury
J-B-T Instruments Inc New Haven
Manning Maxwell & Moore Inc Stratford
Pratt & Whitney Co Inc (Precision Measuring) West Hartford

Integrators
Reflectone Corporation The Stamford

Interval Timers
Lux Clock Manufacturing Company Waterbury
Rhodes Inc M H Hartford

Jacquard
Case Brothers Inc Manchester

Japanning
H Sessions & Son Bristol

Jig Borer
Linley Brothers Company Bridgeport
Moore Special Tool Co (Moore) Bridgeport
Pratt & Whitney Co Inc West Hartford

Jigs, Fixtures & Gages
Federal Machine & Tool Co Bristol

Jig Grinder
Moore Special Tool Co (Moore) Bridgeport

Junior Automobiles
Power Car Company Mystic

Keller Machines
Pratt & Whitney Co Inc West Hartford

Key Blanks
Sargent & Company New Haven
Yale & Towne Mfg Co The Stamford

Labels
Naugatuck Chemical Division United States Rubber Co (for rubber articles) Naugatuck

Label Dispensers
Derby Sealers Inc (pressure-sensitive labels) Derby

Label Moisteners
Better Packages Inc ("Counterboy"—"Packer") Shelton
Derby Sealers Inc Derby

Laboratory Equipment
Eastern Industries Inc New Haven

Laboratory Supplies
Macalaster Bicknell Company New Haven

Laces
American Fabrics Company The Bridgeport
Wilcox Lace Corporation Middletown

Laces and Nettings
Wilcox Lace Corporation The Middletown

Lacquers & Synthetic Enamels
Chemical Coatings Corporation Rocky Hill
I-Sis Chemicals Inc Stamford

Ladders
A W Flint Co 196 Chapel St New Haven

Laminated Metal
Bridgeport Brass Company Bridgeport

Lamps
Plume & Atwood Mfg Co The (metal oil) Waterbury

Lampholders—Incandescent and Flourescent
General Electric Company Bridgeport

Lamp Shades
Verplex Company The Essex

Lanterns—Battery Operated
Electrical Div Olin Mathieson Chemical Corp New Haven

Lathes—Hydra Feed
Bullard Co The (automatic tracer on multiple tool) Bridgeport

Lathes—Man-Au-Trol
Bullard Company The (single spindle-automatic) Bridgeport

Lathes—Mult-Au-Matic
Bullard Company The (vertical multi-spindle-indexing type) Bridgeport

Lathes—Toolroom and Automatic
Pratt & Whitney Co Inc West Hartford

Lathes—Vertical Turret
Bullard Company The (single spindle) Bridgeport

Lead Plating
Christie Plating Co The Groton

Leather
Norwich Leather Co Norwich
Herman Roser & Sons Inc (Genuine Pigskin) Glastonbury

Leather Dog Furnishings
Andrew B Hendryx Co The New Haven
The Smith-Worthington Saddlery Co Hartford

Leather Goods Trimmings
G E Prentice Mfg Co The Kensington

Leather, Mechanical
Auburn Manufacturing Company The (packings, cubs, washers, etc) Middletown

Letterheads
Lehman Brothers Inc (designers, engravers, lithographers) New Haven

Levels—Machinist's Precision
Bullard Company The Bridgeport

Lighting Accessories—Flourescent
General Electric Company Bridgeport

Lighting Equipment
Fullerton Manufacturing Corp Norwalk
Miller Co The (Miller, Ivanhoe) Meriden

Lime
New England Lime Company Canaan

Lipstick Cases
Scovill Manufacturing Company Waterbury

Lipstick Containers
Bridgeport Metal Goods Mfg Co Bridgeport
Plume & Atwood Manufacturing Co Waterbury

Lithographers
O'Toole & Sons Inc T Stamford

Lithographing
Kellogg & Bulkeley A Division of Connecticut Printers Inc Hartford
Lehman Brothers Inc New Haven
A D Steinbach & Sons New Haven

Locks—Banks
Yale & Towne Mfg Co The Stamford

Locks—Builders
Sargent & Company New Haven
Yale & Towne Mfg Co The Stamford

Locks—Cabinet
Excelsior Hardware Co The Stamford
Yale & Towne Mfg Co The Stamford

Locks—Special Purpose
Yale & Towne Mfg Co The Stamford

Locks—Suitcase and Trimmings
Excelsior Hardware Co The Stamford

Locks—Trunk
Excelsior Hardware Co The Stamford
Yale & Towne Mfg Co The Stamford

Locks—Zipper
Excelsior Hardware Co The Stamford

Loom—Non-Metallic
Wiremold Company The Hartford

Lubricating System—Mist
Thompson & Son Co The Henry G New Haven

Lumber & Millwork Products
City Lumber Co of Bridgeport Inc Bridgeport

Machetes
Collins Company The Collinsville

Machine Design
Black Rock Mfg Company The Bridgeport

Machine Shop Fabrication
Smith & Winchester Mfg Co The South Windham

(Advt.)

Machine Tool Designers
R & S Company — New Britain

Machine Tools
Bullard Company The — Bridgeport
Farrel-Birmingham Company Inc — Ansonia
Pratt & Whitney Co Inc — West Hartford
Producto Machine Company The — Bridgeport

Machine Work
Banthin Engineering Co — Bridgeport
Black Rock Mfg Company The — Bridgeport
Farrel-Birmingham Company Inc — Ansonia
Fenn Manufacturing Company The (precision parts) — Newington
Hartford Special Machinery Co The (contract work only) — Hartford
National Sheradizing & Machine Co (job) — Hartford
Parker-Hartford Corporation — Hartford
Swan Tool & Machine Co The — Hartford
Torrington Manufacturing Co The (special rolling mill machinery) — Torrington

Mach'nery
Fenn Manufacturing Company The (special) — Newington
Hallden Machine Company The (mill) — Thomaston
Torrington Manufacturing Co The (mill) — Torrington

Machinery—Automatic
Banthin Engineering Company (new and rebuilt) — Bridgeport

Machinery—Bolt and Nut
Waterbury Farrel Foundry & Machine Co The — Waterbury

Machinery—Cold Heading
Waterbury Farrel Foundry & Machine Co The — Waterbury

Machinery Dealers & Rebuilders
Botwinik Brothers — New Haven
J L Lucas and Son — Fairfield
State Machinery Co Inc — New Haven

Machinery—Extruding
Standard Machinery and Davis-Standard Divisions of Franklin Research Corp — Mystic

Machinery—Metal-Working
Fenn Mfg Co The — Newington
Waterbury Farrel Foundry & Machine Co The — Waterbury
Pratt & Whitney Co Inc — West Hartford

Machinery—Nut
Waterbury Farrel Foundry & Machine Co The (forming and tapping) — Waterbury

Machinery—Screw and Rivet
Waterbury Farrel Foundry & Machine Co The — Waterbury

Machinery—Wire Drawing
Fenn Mfg Co The — Newington
Waterbury Farrel Foundry & Machine Co The — Waterbury

Machinery—Wire Straightening
Mettler Machine Tool Inc — New Haven

Machinery—Wire Straightening and Cutting
Mettler Machine Tool, Inc. — New Haven

Machines
Campbell Machine Div American Chain & Cable Co Inc (cutting & nibbling) — Bridgeport
Coulter & McKenzie Machine Co The (special, new development engineering design and construction) — Bridgeport
Patent Button Company The — Waterbury

Machines Automatic
Globe Tapping Machine Co — Bridgeport
A H Nilson Mach Co The (Special) — Bridgeport

Mach'nes—Automatic Chucking
Bullard Company The — Bridgeport
New Britain-Gridley Machine Division The New Britain Machine Co (multiple spindle and double end) — New Britain
Pratt & Whitney Co Inc (Potter & Johnson) — West Hartford

Machines—Brushing
Fuller Brush Co The — Hartford

Machines—Contin-U-Matic
Bullard Company The (verticle multi-spindle—continuous turning) — Bridgeport

Machines—Draw Benches
Fenn Manufacturing Company The — Newington

Machines—Forming
A H Nilson Mach Co The (four-slide wire and ribbon stock) — Bridgeport

Machines—Paper Ruling
John McAdams & Sons Inc — Norwalk

Machines—Precision Boring
New Britain-Gridley Machine Division The New Britain Machine Co — New Britain

Machines—Rolling
Fenn Manufacturing Company The — Newington

Machines—Slotting
Waterbury Farrel Foundry & Machine Co The (screw head) — Waterbury

Machines—Spacing Table
Bullard Company The — Bridgeport

Machines—Special
Fenn Mfg Co The — Newington
Fuller Brush Co The — Hartford

Machines—Swaging
Fenn Manufacturing Company The — Newington

Machines—Thread Rolling
Hartford Special Machinery Co The — Hartford
Peterson Division, Mettler Machine Tool, Inc. — New Haven
Waterbury Farrel Foundry & Machine Co The — Waterbury

Machines—Turks Head
Fenn Manufacturing Company The — Newington

Machines—Wire Drawing
Fenn Manufacturing Company The — Newington

Machining—Horizontal Boring
Tucker Machine Co — North Haven

Manganese Bronze Ingot
Whipple and Choate Company — Bridgeport

Manicure Instruments
W E Bassett Company The — Derby

Marine Equipment
Wilcox-Crittenden Div North & Judd Mfg Co — Middletown

Marine Reserve Gears
Snow-Nabstedt Gear Corp The — New Haven

Marking Devices
Cooney Engraving Co — Branford
Heggson & Pettis Mfg Co The — New Haven
Parker-Hartford Corporation (steel) — Hartford

Marking Tools
Parker-Hartford Corporation — Hartford

Materials Handling
Hayes-Te Equipment Corp Connecticut Conveyor Division (Conn-Veyor) — Unionville
Parsons Co Inc W A (tote pans) — Durham

Mats—Newspaper
Lockwood Sons Inc Wm H — Hartford

Mattresses
Waterbury Mattress Co — Waterbury

Metal Boxes
Parsons Co Inc W A (tool kits) — Durham

Metal Boxes and Displays
Durham Mfg Co The (Designing & Mfg to customers' specifications) — Durham
Merriam Mfg Co (Bond, Security, Cash, Utility, Personal Files, Drawer Safes, Custombilt containers and displays) — Durham
Middletown Mfg Co — Middletown

Metal Cleaners
Apothecaries Hall Company Division The Hubbard Hall Chemical Company — Waterbury
Enthone Inc — New Haven
MacDermid Incorporated — Waterbury

Metal Finishes
Enthone Inc — New Haven
Mitchell-Bradford Chemical Co — Milford

Metal Finishing
Hartford Industrial Finishing Co — Hartford
National Sheradizing & Machine Co — Hartford
Waterbury Plating Company — Waterbury

Metal Formings
Master Engineering Company — West Cheshire
Stanley Pressed Metal — New Britain

Metallurgists
Bridgeport Testing Laboratory Inc — Bridgeport

Metal Mouldings
Leed Co The H A — Hamden

Metal Novelties
H C Cook Co The — 32 Beaver St Ansonia

Metal Products—Stampings
American Brass Company The — Waterbury
Plume & Atwood Manufacturing Co — Thomaston
Prentice Mfg Co The G E — Kensington
J H Sessions & Son — Bristol
Scovill Manufacturing Company (Made-to-Order) — Waterbury 91
Stanley Pressed Metal — New Britain

Metal Specialties
Excelsior Hardware Co The — Stamford

Metal Spinning
Moseley Metal Crafts Inc — West Hartford

Metal Stampings
American Brass Company The — Waterbury
Better Formed Metals Inc — Waterbury
DooVal Tool & Mfg Inc The — Naugatuck
Excelsior Hardware Co The — Stamford
Greist Mfg Co The — 503 Blake St New Haven
H C Cook Co The — 32 Beaver St Ansonia
Stanley Humason Inc — Forestville
Mohawk Mfg Co (threaded) — Middletown
J A Otterbein Company The (metal fabrications) — Middletown
J H Sessions & Son — Bristol
Patent Button Co The — Waterbury
G E Prentice Mfg Co The — Kensington
Plume & Atwood Mfg Co The — Thomaston
Saling Manufacturing Company — Unionville
Stanley Pressed Metal — New Britain
Swan Tool & Machine Co The — Hartford
Terryville Manufacturing Co — Terryville
Verplex Company The (Contract) — Essex
Waterbury Lock & Specialty Co The — Milford

Meters—Gas
Sprague Meter Company — Bridgeport

Meters—Parking
Rhodes Inc M H — Hartford

Microfilming
American Microfilming Service Co. — New Haven
Cine-Video Productions Inc — Milford

Milk Bottle Carriers
John P Smith Co The — 423-33 Chapel St New Haven

Mill Machinery
Torrington Manufacturing Company The — Torrington

Milling Machines
Pratt & Whitney Co Inc (Keller Tracer—Controlled Milling Machines) — West Hartford
Rowlottom Machine Company Inc (cam) — Waterbury

Mill Products
Scovill Manufacturing Company (aluminum, brass, bronze, nickel silver—sheet, rod, wire, tube) — Waterbury

Mill Supplies
Wilcox-Crittenden Div North & Judd Mfg Co — Middletown

Millwork
Hartford Builders Finish Co — Hartford

Miniature Precision Connectors
Gorn Electric Co — Stamford

Minute Minders
Lux Clock Mfg Co The — Waterbury

Mirror Rosettes and Hangers
Waterbury Companies Inc — Waterbury

Mixers—Liquid
Alsop Engineering Corporation — Milldale

Mixing Equipment
Eastern Industries Inc — New Haven
Gabb Special Products Inc — Windsor Locks

Model Work
B & N Tool & Engineering Co (instruments and timing devices) — Oakville

Mops
Fuller Brush Co The — Hartford

(Advt.)

Motion Picture Equipment
Victor Animatograph Corp a div of Kalart (16mm sound and silent projectors film splicers and rewinders) Plainville

Motion Pictures
Cine-Video Productions Inc Milford

Motor Control Centers
Distribution Assemblies Department, General Electric Co Plainville

Motor—Generator Sets
Electric Specialty Co Stamford

Motor Overload Protectors
Sperry Products Inc Danbury

Motors—Electric Timing
Cramer Controls Corporation The Centerbrook

Motors—Synchronous
Cramer Controls Corporation The Centerbrook
Electric Specialty Co Stamford

Moulded Plastic Products
Butterfield Inc T F Naugatuck
Patent Button Co The Waterbury
Scott & Sons Mfg Co Geo. S. Wallingford
Waterbury Companies Inc Waterbury
Watertown Mfg Co The 117 Echo Lake Road Watertown

Mouldings
Himmel Brothers Co The (architectural, metal and store front) Hamden

Moulds
ABA Tool & Die Co Manchester
Hoggson & Pettis Mfg Co The (steel) 114 Brewery St New Haven

Name Plates
Cooney Engraving Co Branford
Seton Name Plate Co (metal & plastic name plates and identification tags) New Haven

Napper Clothing
Standard Card Clothing Co The (for textile mills) Stafford Springs

Nettings
Wilcox Lace Corp The Middletown

Newspaper Mats
Lockwood Sons Inc Wm H Hartford

Nickel Anodes
Apothecaries Hall Company Division
The Hubbard Hall Chemical Company Waterbury

Nickel Silver
American Brass Company The Waterbury
Bridgeport Brass Company Bridgeport
Plume & Atwood Mfg Co The Thomaston
Seymour Mfg Co The Seymour
Waterbury Rolling Mills Inc (sheets, strips, rolls) Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp (sheet, strip) New Haven

Nickel Silver Ingot
Whipple and Choate Company The Bridgeport

Night Latches
Sargent & Company New Haven
Yale & Towne Mfg Co Inc Stamford

Non-ferrous Metal Castings
Miller Company The Meriden

Nuts, Bolts and Washers
Clark Brothers Bolt Co Milldale

Office Equipment
Pitney-Bowes Inc Stamford
Underwood Corporation Bridgeport & Hartford
Wassell Organization Inc Westport

Offset Printing
Kellogg & Bulkeley A Division of Connecticut Printers Inc Hartford

Oil Burners
Miller Company The (domestic) Meriden
Peabody Engineering Corp (Mechanical and/or Steam Atomizer) Stamford
Silent Glow Oil Burner Corp The Hartford

Oil Tanks
Norwalk Tank Co The (550 to 30M gals, underwriters above and under ground) South Norwalk
Whitlock Manufacturing Co The Hartford

Oils—Cutting
Anderson Oil Co Inc F E Portland

Open Knife Switches and Accessories
Circuit Protective Devices Dept., General Electric Co. Plainville

Optical Cores & Ingots
Plume & Atwood Mfg Co The Thomaston

Otis Woven Awning Stripes
The Falls Company Norwich

Ovens—Electric
Bauer & Company Inc Hartford

Packaging-Engineering
Commerce Packaging Corp Stamford
National Export Corp. (Military and Commercial—equipped for domestic and export packaging, canning, crating and shipping) New Haven

Packaging & Packing
Commerce Packaging Corp Stamford
Mercer & Stewart Co The Hartford

Packing
Auburn Manufacturing Company The (leather, rubber, asbestos, fibre) Middletown
Raybestos Division of Raybestos-Manhattan Inc (Asbestos and Rubber Sheet) Bridgeport

Padlocks
Sargent & Company New Haven
Waterbury Lock & Specialty Co The Milford
Yale & Towne Mfg Co Inc Stamford

Pads—Office
The Baker Goodyear Company Branford

Paints
Tredennick Paint Manufacturing Co The Meriden

Paints and Enamels
Staminate Corp The New Haven

Panelboards—Lighting and Distribution
Distribution Assemblies Department, General Electric Co Plainville

Panelyte
Leed Co The H A Hamden

Panta
Moore Special Tool Co (crush wheel dresser) Bridgeport

Paperboard
Continental Can Co., Boxboard and Folding Carton Division Montville
Federal Paper Board Co Inc
New Haven Board & Carton Co The New Haven
Montville, New Haven & Versailles
Robertson Paper Box Co Montville

Paper Boxes
Atlantic Carton Corp (folding) Norwich
National Folding Box Co Div Federal Paper Board Co Inc (folding) New Haven & Versailles
Mills Inc H J Bristol
New Haven Board & Carton Co The New Haven
Robertson Paper Box Co (folding) Montville

Paper Boxes—Folding and Setup
Bridgeport Paper Box Company Bridgeport
M Backers' Sons Inc Wallingford

Paper Clips
H C Cook Co The (steel) 32 Beaver St Ansonia

Paper Mill Machinery
Farrel-Birmingham Company Inc Ansonia

Paper Tubes and Cores
Sonoco Products Co (Climax-Lowell) Div Mystic

Parallel Tubes
Sonoco Products Co (Climax-Lowell) Div Mystic

Parking Meters
Rhodes Inc M H Hartford

Parts
Scovill Manufacturing Company (ammunition, electric instrument, electrical appliance, fountain pen, instrument, lighting fixture, ordance, etc.—blanked, stamped, formed, drawn, re-drawn, forged, screw machined, headed, pointed, finished) Waterbury

Pattern-Makers
Farrel-Birmingham Company Inc Ansonia

Pattern Shop
Smith & Winchester Mfg Co The South Windham

Penlights
Bridgeport Metal Goods Mfg Co Bridgeport

Pet Furnishings
Andrew B Hendrix Co The New Haven

Phosphor Bronze
American Brass Company The Waterbury
Bridgeport Brass Company Bridgeport
Miller Company The (sheets, strips, rolls) Meriden
Seymour Mfg Co The Seymour
Waterbury Rolling Mills Inc (sheets, strips, rolls) Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp (sheets, strip) New Haven

Phosphor Bronze Ingots
Whipple and Choate Company The Bridgeport

Photo Engraving
Dowd Wyllie & Olson Inc Hartford
Wilcox Photo Engraving Co Inc New Haven

Photoflash Batteries
Electrical Div Olin Mathieson Chemical Corp New Haven

Photographic Equipment
Electrical Div Olin Mathieson Chemical Corp New Haven
Kalart Company Inc Plainville

Piano Repairs
Pratt Read & Co Inc (keys and action) Ivoryton

Piano Supplies
Pratt Read & Co (keys and actions, backs, plates) Ivoryton

Pins
CEM Company ("Spirol") Danielson

Pin Up Lamps
Verplex Company The Essex

Pipe
American Brass Co The (brass and copper) Waterbury
Bridgeport Brass Co (brass and copper) Bridgeport
Chase Brass & Copper Co (red brass and copper) Waterbury
Howard Co (cement well and chimney) New Haven

Pipe Fittings
Corley Co Inc Plainville
Malleable Iron Fittings Co Branford

Pipe Plugs
Holo-Krome Screw Corporation The (countersunk) West Hartford

Pipe Plugs—Socketed
Holo-Krome Screw Corp The West Hartford

Pistols & Revolvers
Colt's Patent Fire Arms Mfg Co Inc Hartford

Plastic Coatings
Bischoff Chemical Corporation (Peelable Plastic Coatings) Ivoryton

Plastic Bottles
Plax Corporation Bloomfield

Plastic Buttons
Frank Parizek Manufacturing Co The West Willington
Patent Button Co The Waterbury

Plastic Engraving
Salisbury Products Inc Lakeville

Plastic Extruders
Jessall Plastics, Inc. Kensington

Plastic Extruders
Jessall Plastics Inc Kensington

Plastic Fabrication
Humphrey Fabricating Corporation Unionville
Salisbury Products Inc Lakeville

Plastic Film & Sheet Materials
Gilman Brothers Co The Gilman
Plax Corporation Bloomfield

Plastic Lining Equipment
Comco Inc Div of Enthone Inc New Haven

Plastic Machinery
Black Rock Mfg Company The Bridgeport

Plastic Molders
Plastic Molding Corporation Sandy Hook

Plastic Molding
Butterfield Inc T F Naugatuck
U S Plastic Molding Corporation Wallingford

Plastic—Moulders
Conn Plastics Waterbury
Scott & Sons Mfg Co Geo. S. Wallingford
Waterbury Companies Inc Waterbury
Watertown Mfg Co The Watertown

Plastic Pipe and Fittings
Comco Inc Div of Enthone Inc New Haven

Plastic Printing Plates
Lockwood Sons Inc Wm H Hartford

Plastic Wire Coating Materials
Electronic Rubber Co Stamford

Plastics
B F Goodrich Sponge Products Division Shelton
Naugatuck Chemical Division United States Rubber Co Naugatuck

(Advt.)

Plastics Machinery
Farrel-Birmingham Company Inc — Ansonia

Plastics—Moulds & Dies
Crown Tool & Die Co Inc — Bridgeport

Plasticrete Bloc
Plasticrete Corp — Hamden

Platers
Acme Chromium Plating Co — New Haven
Christie Plating Co — Groton
Patent Button Co The — Waterbury
Water Plating Company — Waterbury
Chromium Process Company The (Chromium Plating only) — Shelton

Platers' Equipment
Apothecaries Hall Company — Waterbury
Comco Inc Div of Enthone Inc — New Haven
Lea Manufacturing Co The — Waterbury
MacDermid Incorporated — Waterbury

Platers Metal
Plume & Atwood Mfg Co The — Thomaston

Plating
Christie Plating Co The (including lead plating) — Groton
Giering Metal Finishing Inc — Hamden
Superior Plating Co — Bridgeport
Tec-Plate Inc — Windsor Locks

Plating Processes and Supplies
Enthone Inc — New Haven
State Testing Laboratory Inc (plating analyses) — Bridgeport

Plumbers' Brass Goods
Bridgeport Brass Co — Bridgeport
Keeney Mfg Co The (special bends) — Newington
McGuire Mfg. Co. — Waterbury
Scovill Manufacturing Company — Waterbury 48

Plumbing Specialties
Risdon Manufacturing Co John M Russell Div — Naugatuck

Pole Line Hardware
Malleable Iron Fittings Co — Branford

Police Equipment
The Smith-Worthington Saddlery Co — Hartford

Polishing
Mirror Polishing & Buffing Co — Waterbury

Postage Meters
Pitney Bowes Inc — Stamford

Potentiometers—Electronic
Bristol Company The — Waterbury

Precision Machine Tool Spindles
Whitnon Manufacturing Co (for milling, grinding, boring & drilling) — Farmington

Precision Manufacturing
Newton Co The (aircraft parts) — Manchester

Precision Revolving Machinery
Whitnon Manufacturing Co — Farmington

Precision Sheet Metal Fabrication
Milford Fabricating Co — Milford

Precision Springs & Wire Forms
Rowley Spring Co Inc The — Bristol

Premium Specialties
Waterbury Companies Inc — Waterbury

Preservatives—Wood, Rope, Fabric
Darworth Incorporated ("Cuprinol") ("Cellu-san") — Simsbury

Pressboard
Case & Risley Press Paper Co (genuine) — Oneco

Press Papers
Case Brothers Inc — Manchester

Presses
Farrel-Birmingham Company Inc (Hydraulic)

Presses—Power
Pneumatic Applications Co The (modernization of presses through conversion to Wichita Air Clutch operation) — Simsbury
Waterbury Farrel Foundry & Machine Co The — Waterbury

Pressure Vessels
Norwalk Tank Co Inc The (unfired to ASME Code Par U 69-70) — South Norwalk
Whitlock Manufacturing Co The — Hartford

Printing
Allied Printing Services Inc — Manchester
Bussmann Press Inc — New Haven
Case Lockwood & Brainard A Division of Connecticut Printers Inc — Hartford
Finlay Brothers — Hartford
Heminway Corporation The — Waterbury
Hildreth Press — Bristol
Hunter Press — Hartford
Lehman Brothers Inc — New Haven
Taylor & Greenough Co The — Wethersfield
T B Simonds Inc — Hartford
A D Steinbach & Sons — New Haven
The Walker-Rackliff Company — New Haven

Printing Machinery
Banthin Engineering Co (automatic) — Bridgeport

Printing Plates
Lockwood Sons Inc Wm H — Hartford

Printing Rollers
Chambers-Storck Company Inc The (engraved) — Norwich

Printing—Silk Screen
Ad-Craft Displays, Inc. — Bloomfield

Production Control Equipment
Ripley Company Inc — Middletown
Wassell Organization Inc — Westport

Profilers
Pratt & Whitney Co Inc — West Hartford

Propellers—Aircraft
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment) — Windsor Locks

Protective Coatings
Bischoff Chemical Corporation (Peelable Plastic Coatings) — Ivoryton
Harrison Company The A S (Waxes) — South Norwalk

Publishers
O'Toole & Sons Inc The — Stamford

Pumps
Sumo Pumps Inc (Deep-well electro-submersible) — Stamford
Yale & Towne Mfg Co The — Stamford

Pumps—Small Industrial
Eastern Industries Inc — New Haven

Punches
Hoggson & Pettis Mfg Co The (ticket & cloth) 141 Brewery St — New Haven

Putty Softeners—Electrical
Fletcher Terry Co The — Box 415 Forestville

Pyrometers
Bristol Co The (recording and controlling) — Waterbury

Radiation—Finned Copper
Bush Manufacturing Co — West Hartford
G & O Manufacturing Company The — New Haven
Vulcan Radiator Co The (steel and copper) — Hartford

Radiators—Engine Cooling
G & O Manufacturing Co — New Haven

Ratchet Offset Screw Driver
Chapman Co J W — Durham

Rayon Staple Fiber
Hartford Rayon Corp The — Rocky Hill

Reamers
Atrax Company The (solid carbide) — Newington
Pratt & Whitney Co Inc (All types) — West Hartford

Record Equipment
Wassell Organization Inc (filing equipment) — Westport

Recorders
Bristol Co The (automatic controllers, temperature, pressure, flow, humidity) — Waterbury

Reduction Gears
Farrel-Birmingham Company Inc — Ansonia
Snow-Nabstedt Gear Corp The — New Haven

Refractories
Howard Company — New Haven
Mullite Works Refractories Div H K Porter Co Inc — Shelton

Refrigeration
Dunham-Bush Inc — West Hartford

Regulators
Norwalk Valve Company (for gas and air) — South Norwalk

Research & Development
Raymond Engineering Laboratories (Electro-Mechanical) — Middletown
State Testing Laboratory Inc (chemical/physical testing) — Bridgeport

Resistance Wire
C O Jeliff Mfg Co The (nickel chromium, copper nickel, iron chromium, aluminum) — Southport
Kanthal Corporation The — Stamford

Respirators
American Optical Company Safety Products Division — Putnam

Resuscitators
Cycle-Flo Company The — Milford

Retainers
Hartford Steel Ball Co The (bicycle & automotive) — Hartford

Rigid Plastic Sheet Material
Gilman Brothers Company The — Gilman

Riveting Machines
Grant Mfg & Machine Co The — Bridgeport
Linley Brothers Company — Bridgeport
Ripley Company Inc — Middletown
H P Townsend Manufacturing Co The — Elmwood

Rivets
Clark Brothers Bolt Co — Milldale
Plume & Atwood Mfg Co The — Thomaston
Raybestos Div of Raybestos-Manhattan Inc The (brass and aluminum tubular and solid copper) — Bridgeport
Raybestos Div of Raybestos-Manhattan Inc The (iron) — Bridgeport

Rods
American Brass Company The (copper, brass, bronze) — Waterbury
Bridgeport Brass Company — Bridgeport
Bristol Brass Corp The (brass and bronze) — Bristol
Scovill Manufacturing Company (aluminum, brass, bronze, etc.) — Waterbury

Rollers—Bituminous Paving
Gabb Special Products Div E Horton & Son Company — Windsor Locks

Roller Skate Wheels
Raybestos Division of Raybestos-Manhattan Inc — Bridgeport

Roller Skates
Arms and Ammunition Div Olin Mathieson Chemical Corp — New Haven

Rolling Mills & Equipment
Farrel-Birmingham Company Inc — Ansonia
Fenn Mfg Co The — Newington
Precision Methods & Machines Inc — Waterbury
Waterbury Farrel Foundry & Machine Co The — Waterbury

Rolls
Farrel-Birmingham Company Inc (Chilled and Alloy Iron, Steel) — Ansonia

Rotary Files
Atrax Company The (carbide) — Newington

Routers
Atrax Company The (solid carbide) — Newington

Rubber—Cellular
B F Goodrich Sponge Products Division — Shelton

Rubber Cutting Machinery
Black Rock Mfg Company The — Bridgeport

Rubber Chemicals
Naugatuck Chemical Division United States Rubber Co — Naugatuck
Stamford Rubber Supply Co The ("Factice" Vulcanized Vegetable Oils) — Stamford

Rubberized Fabrics
Duro-Gloss Rubber Co The — New Haven

Rubber Footwear
Goodyear Rubber Co The — Middletown

Rubber Gloves
Seamless Rubber Company The — New Haven

Rubber—Handmade Specialties
Seamless Rubber Company The — New Haven

Rubber Latex Compounds and Dispersions
Naugatuck Chemical Division United States Rubber Co (coating, impregnating and adhesive compounds) — Naugatuck

(Advt.)

Rubber Mill Machinery
Farrel-Birmingham Company Inc — Ansonia

Rubber—Molded Specialties
Airex Rubber Prod Corp — Portland
Bond Rubber Corporation — Derby
Canfield Co The H O — Bridgeport
Seamless Rubber Company The — New Haven

Rubber Products
Airex Rubber Prod Corp — Portland

Rubber Printing Plates
ADS Inc Div CSW Plastic Types Inc — Hartford
Lockwood Sons Inc Wm H — Hartford

Rubber Products—Mechanical
American Felt Co — Glenville
Auburn Manufacturing Company The (washers, gaskets, molded parts) — Middletown
Canfield Co The H O — Bridgeport
Seamless Rubber Company The — New Haven

Rubber—Reclaimed
Naugatuck Chemical Division United States Rubber Co — Naugatuck

Rubbers
Naugatuck Chemical Div U S Rubber Co (synthetic rubbers and latex) — Naugatuck

Rubbish Burners
John P Smith Co The — 423-33 Chapel St New Haven

Rust Preventives
Anderson Oil Co Inc F E — Portland
Enthone Inc — New Haven

Rust Removers
Enthone Inc — New Haven

Saddlery
The Smith-Worthington Saddlery Co — Hartford

Safety Belts
Russell Mfg Co — Middletown

Safety Clothing
American Optical Company Safety Products Division — Putnam

Safety Fuses
Ensign-Bickford Co The (mining & detonating) — Simsbury

Safety Gloves and Mittens
American Optical Company Safety Products Division — Putnam

Safety Goggles
American Optical Company Safety Products Division — Putnam

Safety Switches
Circuit Protective Devices Dept., General Electric Co. — Plainville

Saw Blades—Hack
Capewell Mfg Co The — Hartford
Thompson & Son Co The Henry G — New Haven

Saw Blades—Hack & Band
Capewell Manufacturing Company — Hartford

Saws, Band, Metal Cutting
Atlantic Saw Mfg Co — New Haven
Capewell Manufacturing Co The — Hartford
Thompson & Son Co The Henry G — New Haven

Saws—Hole
Capewell Manufacturing Co The — Hartford
Thompson & Son Co The Henry G — New Haven

Scissors
Acme Shear Company The — Bridgeport

Screens
Hartford Wire Works Co The (Windows, Doors and Porches) — Hartford

Screw Caps
Weimann Bros Mfg Co The (small for bottles) — Derby

Screw Machines
H P Townsend Mfg Company The — Elmwood

Screw Machine Products
Accurate Screw Products Inc (B & S Swiss & Davenports) — Southington
Apex Tool Co Inc The — Bridgeport
Auto Electric Screw Machine Co Inc — Bridgeport
Consolidated Industries — West Cheshire
Eastern Machine Screw Corp The — New Haven
Truman & Barclay Sts
Fairchild Screw Products Inc — Winsted
Franklin Screw Machine Co The (up to 1½" capacity) — Hartford
Garthwait Mfg Co A E (up to and incl ½") — Waterbury
Greist Mfg Co The (up to 1½" capacity) — New Haven
Horberg Grinding Industries Inc (heat treated and ground type only) — Bridgeport
19 Staples Street

Screw Machine Products (Cont.)
Stanley Humason Inc — Forestville
Independent Screw Machine Products (up to an incl 1¼" capacity) — Hartford
Junior Screw Machine Products Inc — West Haven
Lowe Mfg Co The — Wethersfield
Main Screw Machine Products (davenport & automatics exclusively) — Waterbury
National Automatic Products Company The — Berlin
Nelson's Screw Machine Products — Plantsville
New Britain Machine Company The — New Britain
New Haven Screw Machine Prods Inc (up to 1½" capacity) — Milford
Newton Screw Machine Products Co — Plainville
Olson Brothers Company (up to ¾" capacity) — Plainville
Olson & Sons R P — Southington
Plume & Atwood Mfg Co The — Thomaston
Scovill Manufacturing Company — Waterbury 91
United Screw Machine Co — Thomaston
Waterbury Machine Tools & Products Co (Brown & Sharpe and Davenport) — Waterbury

Screw Machine Tools
American Cam Company Inc (Circular Form Tools) — Hartford
Pratt & Whitney Co Inc (Reamers, Taps, Dies, Blades and Knurls) — West Hartford
Somma Tool Co (precision circular form tools) — Waterbury

Screws
Allen Manufacturing Company The — Hartford
American Screw Company — Willimantic
Atlantic Screw Works (wood) — Hartford
Bristol Company The (socket set and socket cap screws) — Waterbury
Clark Brothers Bolt Co — Milldale
Holo-Krome Screw Corporation The (socket set and socket cap) — West Hartford
Scovill Manufacturing Company — Waterbury 91
Superior Manufacturing Co The — Winsted

Screws—Socket
Allen Manufacturing Company The — Hartford
Bristol Co The — Waterbury
Holo-Krome Screw Corp The — West Hartford

Sealing Tape Machines
Better Packages Inc ("Counterboy," "Tape-shooter," "Big Inch") — Shelton
Derby Sealers Inc (gummed and pressure-sensitive tapes) — Derby

Seals
Russell Mfg Co (for oven doors and fire bulkheads) — Middletown

Service Entrance Equipment
Circuit Protective Devices Dept., General Electric Co. — Plainville

Sewing Machines
Greist Mfg Co The (Sewing Machine attachments) — 503 Blake St New Haven
Singer Manufacturing Company The (industrial) — Bridgeport

Sharpeners
Gorn Electric Co Inc (electric knife and scissors) — Stamford

Shaving Soaps
J B Williams Co The — Glastonbury

Shears
Acme Shear Co The (household) — Bridgeport

Sheet Metal Products
American Brass Co The (brass and copper) — Waterbury
Merriam Mfg Co (security boxes, fitted tool boxes, tackle boxes, displays) — Durham
Parsons Co Inc W A (fabricators) — Durham
Plume & Atwood Mfg Co The — Thomaston
United Manufacturing Co Division of The W L Maxson Corp — Hamden

Sheet Metal Stampings
American Brass Company The — Waterbury
American Buckle Co The — West Haven
DooVal Tool & Mfg Inc The — Naugatuck
J H Sessions & Son — Bristol
Plume & Atwood Mfg Co The — Thomaston
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys) — Waterbury

Sheet Steel
Dolan Steel Company Inc — Bridgeport

Shell Cores
Victors Brass Foundry Inc — Guilford

Shell Molding
Victors Brass Foundry Inc — Guilford

Shells
Scoville Manufacturing Company (aluminum, brass, bronze, copper, nickel silver—drawn, stamped—electric socket, screw) — Waterbury
Wolcott Tool and Manufacturing Company Inc — Waterbury

Showcase Lighting Equipment
Wiremold Company The — Hartford

Signals
H C Cook Co The (for card files) — Ansonia
32 Beaver St

Signs
Berger Sign Co (neon electric-porcelain enamel-stainless steel) — Hartford
Ad-Craft Displays, Inc. (all types, quantity only) — Bloomfield

Silk Screen Process Printing
Ad-Craft Displays, Inc. — Bloomfield
Norton Co R H — New Haven
Sirocco Screen prints — New Haven
Stifel & Kufta Inc — New Britain

Silk Screening on Metal
Ad-Craft Displays, Inc. — Bloomfield
Merriam Mfg Co (Displays and Specialties, to order) — Durham

Simulators
Reflectone Corporation The — Stamford

Sintered Metal Products
Raybestos Division of Raybestos-Manhattan Inc — Bridgeport

Sizing and Finishing Compounds
American Cyanamid Company — Waterbury

Slide Fasteners
G E Prentice Mfg Co The — Kensington
North & Judd Manufacturing Co — New Britain
Scovill Manufacturing Company (GRIPPER zippers) — Waterbury

Smoke Stacks
Bigelow Company The (steel) — New Haven
Norwalk Tank Co The — South Norwalk

Snap Fasteners
Scovill Manufacturing Company (GRIPPER snap fasteners) — Waterbury

Soap
J B Williams Co The (industrial soaps, toilet soaps, shaving soaps) — Glastonbury

Special Machinery
Banthin Engineering Company (complete and/or parts) — Bridgeport
Black Rock Mfg Company The — Bridgeport
Boesch Mfg Co Inc — Danbury
Farrel-Birmingham Company Inc — Ansonia
Federal Machine & Tool Co — Bristol
Fenn Mfg Co The — Newington
Hartford Special Machinery Co The — Hartford
H P Townsend Mfg Company The — Elmwood
National Sheradizing & Machine Co (mandrels & stock shells for rubber industry) — Hartford
Swan Tool & Machine Co The — Hartford
Tucker Machine Co — North Haven

Special Parts
Fenn Mfg Co The — Newington
Greist Mfg Co The (small machines, especially precision stampings) — New Haven
J H Sessions & Son — Bristol

Spinnings
Gray Manufacturing Company The — Hartford

Spline Milling Machines
Townsend Mfg Co The H P — Elmwood

Sponge Rubber
B F Goodrich Sponge Products Division — Shelton

Spotwelding
Spotwelders Inc (aluminum, steel, magnesium, titanium & alloys) — Stratford

Spray Painting Equipment and Supplies
Lea Manufacturing Co The — Waterbury

Spring Coiling Machines
Torrington Manufacturing Co The — Torrington

Spring Presses
Townsend Mfg Co The H P — Elmwood

Spring Units
Owen Silent Spring Division American Chain & Cable Company Inc — Bridgeport

Spring Washers
Barnes Co The Wallace Div Associated Spring Corp — Bristol

Springs
Central Spring Co (Torsion and Double Torsion) — Terryville

Springs—Coil & Flat
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Barrett Co William L — Bristol
Bristol Spring Manufacturing Co — Plainville
Foursome Manufacturing Co — Bristol
Stanley Humason Inc — Forestville
Newcomb Spring Corp The — Southington
New England Spring Manufacturing Company — Unionville
Peck Spring Co The — Plainville

Springs—Flat
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Bristol Spring Manufacturing Co — Plainville
Foursome Manufacturing Co — Bristol
Stanley Humason Inc — Forestville
Peck Spring Co — Plainville (Advt.)

Springs—Wire
Banner Spring Corporation Hartford
Barnes Co The Wallace Div Associated Spring Corp Bristol
Bernston Co., J. W. Plainville
Bristol Spring Manufacturing Co Plainville
Colonial Spring Corporation The Hartford
Connecticut Spring Corporation The (compression, extension, torsion) Hartford
Foursome Manufacturing Co Bristol
Stanley Humason Inc Forestville
D R Templeman Co (coil and torsion) Plainville
Newcomb Spring Corp The Southington
Peck Spring Co Plainville

Springs, Wire & Flat
Peck Spring Co Plainville

Sprinklers
Scovill Manufacturing Company (GREEN SPOT) Waterbury

Stamped Metal Products
American Brass Company The Waterbury

Stampings
DooVal Tool & Mfg Inc The Naugatuck
Foursome Manufacturing Co Bristol
Plume & Atwood Mfg Co The (small) Thomaston
Scovill Manufacturing Company aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys—automotive, electrical, radio, etc.—deep drawn, enameled) Waterbury
Stanley Pressed Metal New Britain

Stampings—Small
Acme Shear Co The Bridgeport
Barnes Co The Wallace Div Associated Spring Corp Bristol
Barrett Co William L Bristol
Bristol Spring Manufacturing Co Plainville
Greist Manufacturing Co The New Haven
Stanley Humason Inc Forestville
Wire Form Inc Milldale

Stamps
Hoggson & Pettis Mfg Co The (steel) 141 Brewery St New Haven
Parker-Hartford Corporation (steel) Hartford

Stationery Specialties
American Brass Company The Waterbury

Steel Castings
Hartford Electric Steel Corp The (carbon, low alloy and stainless steel castings) Hartford
Malleable Iron Fittings Co Branford
Nutmeg Crucible Steel Co Branford

Steel—Cold Rolled Spring
Barnes Co The Willace Div Associated Spring Corp Bristol
Detroit Steel Corporation Hamden

Steel—Cold Rolled Stainless
Ulbrich Stainless Steels Wallingford
Wallingford Steel Company Wallingford

Steel—Cold Rolled Strip
Detroit Steel Corporation Hamden
Stanley Works The New Britain

Steel—Cold Rolled Strip and Sheets
Detroit Steel Corporation New Haven
Wallingford Steel Company Wallingford

Steel Goods
Merriam Mfg Co (sheets products to order)

Steel—Ground Flat Stock
Thompson & Son Co The Henry G New Haven

Steel Rolling Rules
Waterbury Lock & Specialty Co The Milford

Steel Stamps
Cooney Engraving Co Branford

Steel Strapping
Stanley Works The New Britain

Stereotypes
New Haven Electrotype Div Electrographic Corp New Haven

Stop Clocks, Electric
H C Thompson Clock Co The Bristol

Storage Batteries
R A E Storage Battery Mfg Co Glastonbury

Straps, Leather
Auburn Manufacturing Company The (textile, industrial, skate, carriage) Middletown

Strip Steel
Dolan Steel Company Inc Bridgeport

Structural Mouldings
Leed Co The H A Hamden

Studio Couches
Waterbury Mattress Co Waterbury

Super Refractories
Mullite Works Refractories Div H K Porter Co Inc Shelton

Surface Metal Raceway & Fittings
Wiremold Company The Hartford

Surgical Dressings
Acme Cotton Products Co Inc East Killingly
Seamless Rubber Company The New Haven

Surgical Rubber Goods
Seamless Rubber Company The New Haven

Swaging Machinery
Fenn Mfg Co The Newington

Switchboards
Distribution Assemblies Department, General Electric Co Plainville

Switchboards Wire and Cables
Rockbestos Products Corp (asbestos insulated) New Haven

Switches—Electric
General Electric Company Bridgeport

Synthetic Fabrics
American Felt Co Glenville

Tabulating Equipment—Manual
Denominator Company Inc Woodbury
Veeder-Root Incorporated Hartford

Tanks
Bigelow Company The (steel) New Haven
Comco Inc Div of Enthone Inc (steel, alloy and lined) New Haven
Connecticut Welders Inc (steel, alloy & lined) Wallingford
Norwalk Tank Co The South Norwalk
Rolock Inc (Alloy) Fairfield
Storts Welding Company (steel and alloy) Meriden

Tanks—Stainless Steel
Alsop Engineering Corporation Milldale

Tap Extractors
Walton Company The West Hartford

Tape
Russell Mfg Co (Glass Electrical Insulating Tapes, Glass Fabrics for Plastic Moulding) Middletown

Tapes—Industrial Pressure Sensitive
Seamless Rubber Company The New Haven

Tape Machines
Better Packages Inc (Manual and electric models for case taping) Shelton
Derby Sealers Inc (manual and electric models) Derby

Taps
Hanson-Whitney Company The Hartford
Pratt & Whitney Co Inc West Hartford

Tarred Lines
Brownell & Co Inc Moodus

Telemetering Instruments
Bristol Co The Waterbury

Television—Radio
Junior Screw Machine Products Inc West Haven

Testers-Insulation
McNeal J D New Haven

Testers—Insulation Wire & Cable
Davis Electric Company Wallingford

Testers—Nondestructive, Ultrasonic
Sperry Products Inc Danbury

Testing
State Testing Laboratory Inc (environmental, X-ray, tensile, bearings) Bridgeport

Textile Printing Gums
Polymer Industries Inc Springdale

Textile Processors
Amerbelle Corporation Rockville

Thermometers
Bristol Co The (recording and automatic control) Waterbury
Manning Maxwell & Moore Inc Stratford

Thin Gauge Metals
Plume & Atwood Mfg Co The Thomaston
Thinsheet Metals Co The (plain or tinned in rolls) Waterbury

Thread
American Thread Co The Willimantic
Belding Heminway Corticelli Putnam
Max Pollack & Co Inc Groton and Willimantic

Thread Chasers
Geometric Tool Division, Greenfield Tap & Die Corp New Haven

Thread Gages
Hanson-Whitney Company The Hartford
Pratt & Whitney Co Inc West Hartford

Thread Milling Machines
Hanson-Whitney Company The Hartford
Pratt & Whitney Co Inc West Hartford

Thread Rolling
Bland Burner Co The Thread Products Div Hartford

Thread Rolling Machinery
Hartford Special Machinery Co The Hartford
Mettler Machine Tool, Inc. New Haven

Threading Machines
Grant Mfg & Machine Co The (double end automatic) Bridgeport

Timers, Interval
A W Haydon Co The Waterbury
H C Thompson Clock Co The Bristol
Cramer Controls Corporation The Centerbrook
Rhodes Inc M H Hartford

Timing Devices
B & N Tool & Engineering Co (development and model work) Oakville
Cramer Controls Corporation The Centerbrook
A W Haydon Co The Waterbury
Lux Clock Manufacturing Company Waterbury
Rhodes Inc M H Hartford
Seth Thomas Clocks Thomaston
United States Time Corporation The Waterbury

Timing Devices & Time Switches
A W Haydon Co The Waterbury
Lux Clock Manufacturing Company Waterbury
M H Rhodes Inc Hartford

Tinning
Thinsheet Metals Co The (non-ferrous metals in rolls) Waterbury
Wilcox-Crittenden Div North & Judd Mfg Co Middletown

Tires
Armstrong Rubber Company The West Haven

Tokens
Scovill Manufacturing Company (bus, street car and subway fare) Waterbury

Tool Bits
Thompson & Son Co The Henry G New Haven

Tool Chests
Vanderman Manufacturing Co The Willimantic

Tool Hardening
Commercial Metal Treating Co Bridgeport

Tools
B & N Tool & Engineering Co (dies, jigs, fixtures, sub-press and progressive) Thomaston
Hoggson & Pettis Mfg Co The (rubber workers) 141 Brewery St New Haven

Tools & Dies
Metropolitan Tool & Die Hartford
Moore Special Tool Co Bridgeport
Swan Tool & Machine Co The Hartford

Tools, Dies & Fixtures
Greist Mfg Co The New Haven

Tools, Dies, Jigs & Fixtures
Lyons Tool & Die (modelwork, jig boring) Meriden
Otterbein Co J A Middletown
Telke Tool & Die Mfg Co New Britain

Tools, Fixtures, Gauges
Fredericks Tool Co J F West Hartford

Toroidal Winding Machines
Boesch Mfg Co Inc Danbury

Totalizers
Reflectone Corporation The Stamford

Toys
Geo S Scott Mfg Co The Wallingford
Gilbert Co The A C New Haven
N N Hill Brass Co The East Hampton
Waterbury Companies Inc Waterbury

Transformers
Monarch Electric Co (Allis Chalmers) New Britain

Trucks—Commercial
Metropolitan Body Company (International Harvester truck chassis and "Metro" bodies) Bridgeport

Truck—Lift
Excelsior Hardware Co The Stamford

Trucks—Skid Platforms
Excelsior Hardware Co The (lift) Stamford

Tube Clips
H C Cook Co The (for collapsible tubes) 32 Beaver St Ansonia
Weimann Bros Mfg Co The (for collapsible tubes) Derby

Tube Fittings
Scovill Manufacturing Company (UNIFLARE flared tube and LOXIT compression tube) Waterbury

Tubers
Standard Machinery and Davis-Standard Divisions of Franklin Research Corp Mystic
(Advt.)

Tubes—Collapsible Metal
Sheffield Tube Corp The — New London

Tubing
American Brass Co The (brass and copper) — Waterbury
Bridgeport Brass Company (brass and copper) — Bridgeport
G & O Manufacturing Co (finned) — New Haven
Scovill Manufacturing Company (Brass and Copper) — Waterbury 91
Wallingford Steel Co The (stainless and super metals) — Wallingford

Tubing—Flexible Metallic
American Brass Co Metal Hose Branch — Waterbury

Tubing—Heat Exchanger
American Brass Company The — Waterbury
Scovill Manufacturing Company — Waterbury 91

Tumbling Barrels and Accessories
Wheeler Co G. E. — New Haven

Tumbling Equipment & Supplies
Esbec Barrel Finishing Corp — Byram

Tumbling Service
Esbec Barrel Finishing Corp — Meriden

Turntables
Macton Machinery Company Inc (industrial & display) — Stamford

Typewriters
Royal McBee Corp — Hartford
Underwood Corporation — Hartford

Typewriters—Portable
Royal McBee Corp — Hartford
Underwood Corporation — Hartford

Typewriter Ribbons and Supplies
Royal McBee Corp — Hartford
Underwood Corporation — Hartford and Bridgeport

Ultrasonic Processing Equipment
General Ultrasonics Co The — Hartford

Underclearer Rolls
Sonoco Products Co (Climax-Lowell Div) — Mystic

V-Belt Drives
Monarch Electric Co (Allis Chalmers) — New Britain

Vacuum Bottles and Containers
American Thermos Products Co — Norwich

Vacuum Cleaners
Electrolux Corporation — Old Greenwich
Spencer Turbine Co The — Hartford

Valves—Automobile Tire
Bridgeport Brass Company — Bridgeport

Valves
Norwalk Valve Company (sensitive check valves) — South Norwalk

Valves—Aircraft
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co — Milford

Valves—Radiator Air
Bridgeport Brass Company — Bridgeport

Valves—Relief & Control
Beaton & Caldwell Mfg Co — New Britain

Valves—Safety & Relief
Manning Maxwell & Moore Inc — Stratford

Vanity Boxes
Bridgeport Metal Goods Mfg Co — Bridgeport
Plume & Atwood Manufacturing Co — Thomaston
Scovill Manufacturing Company — Waterbury

Varnishes
Staminite Corp The — New Haven

Velvets
American Velvet Co (owned and operated by A Wimpfheimer & Bros Inc) — Stonington
Leiss Velvet Mfg Co Inc The — Willimantic

Venetian Blinds
Findell Manufacturing Company — Manchester
Jennings Company The S Barry — New Haven

Ventilating Systems
Colonial Blower Company — Plainville

Vertical Shapers
Pratt & Whitney Co Inc — West Hartford

Vibrators—Pneumatic
Branford Co The (industrial) — New Haven

Vinyl Extrusion & Moulding Compounds
Electronic Rubber Co — Stamford

Vises
Fenn Manufacturing Company The (Quick-Action Vises) — Newington
Vanderman Manufacturing Co The (Combination Bench Pipe) — Willimantic

Wall Paper
Stamford Wall Paper Co Inc — Stamford

Washers
American Felt Co (felt) — Glenville
Auburn Manufacturing Company The (all materials) — Middletown
Clark Brothers Bolt Co — Milldale
Humphrey Fabricating Corp — Unionville
Plume & Atwood Mfg Co The (brass & copper) — Thomaston
J H Rosenbeck Inc — Torrington
Saling Manufacturing Company (made to order) — Unionville

Washers—Felt
American Felt Co — Glenville
Chas W House & Sons Inc (Mills & Cutting Plant) — Unionville

Watches
E Ingraham Co The — Bristol
United States Time Corporation The — Waterbury

Water Deionizers
Penfield Mfg Co — Meriden

Water Heaters
Whitlock Manufacturing Co The (instantaneous & Storage) — Hartford

Water Heaters—Electric
Bauer & Company Inc — Hartford

Water Heaters—Gas or Kerosene
Holyoke Heater Corp of Conn Inc — Hartford

Waxes
Harrison Company The A S (and other protective coatings) — South Norwalk

Waxes—Floor
Fuller Brush Co The — Hartford

Webbing
Russell Mfg Co (Webbing for Safety Seat Belts—all types of webbing) — Middletown

Wedges
Saling Manufacturing Company (hammer & axe) — Unionville

Welding
Aircraft Welding & Mfg Co Inc (aluminum, stainless steel, magnesium) — Hartford
Connecticut Welders Inc (fabrication & repairs) — Wallingford
Farrel-Birmingham Company Inc — Ansonia
G E Wheeler Company (Fabrication of Steel & Non-Ferrous Metals) — New Haven
Industrial Welding Company (Equipment Manufacturers—Steel Fabricators) — Hartford

Welding—Lead
Connecticut Welders Inc (tanks & coils) — Wallingford
Storts Welding Company (tanks and fabrication) — Meriden

Welding Rods
American Brass Company The — Waterbury
Bridgeport Brass Company — Bridgeport
Bristol Brass Co The (brass & bronze) — Bristol

Wells
Church Co The Stephen B — Seymour

Wicks
American Felt Co — Glenville
Auburn Manufacturing Company The (felt, asbestos) — Middletown
Holyoke Heater Corp of Conn Inc — Hartford

Wiffle Ball
Wiffle Ball Inc The — New Haven

Window & Door Guards
Hartford Wire Works Co The — Hartford
Smith Co The John P — New Haven

Wiping Cloths
Federal Textile Corporation — New Haven

Wire
American Brass Company The — Waterbury
Atlantic Wire Co The (steel) — Branford
Bartlett Hair Spring Wire Co The — North Haven
Bridgeport Brass Company (brass and silicon bronze) — Bridgeport
Bristol Brass Corp The (brass & bronze) — Bristol
Driscoll Wire Co The (steel) — Shelton
Hudson Wire Co Winsted Div (insulated & enameled magnet) — Winsted
Platt Bros & Co The (zinc wire) P O Box 1030 — Waterbury
Plume & Atwood Mfg Co The (brass, bronze, nickel silver) — Thomaston
Scovill Manufacturing Company (Brass, Bronze and Nickel Silver) — Waterbury 91

Wire and Cable
Continental Wire Corp (for industrial and military applications) — Wallingford
General Electric Company (for residential, commercial and industrial applications) — Bridgeport
Rockbestos Products Corporation (all asbestos, mining, shipboard and appliance applications) — New Haven

Wire Arches & Trellises
Hartford Wire Works Co The — Hartford
John P Smith Co The 423-33 Chapel St — New Haven

Wire Baskets
Wiretex Mfg Inc (Industrial, for acid, heat, treating and degreasing) — Bridgeport

Wire Cloth
Hartford Wire Works Co The — Hartford
C O Jeliff Mfg Co The (all metal, all meshes) — Southport
Pequot Wire Cloth Co Inc — Norwalk
Rolock Inc (Alloy) — Fairfield
Smith Co The John P — New Haven

Wire Dipping Baskets
Hartford Wire Works Co The — Hartford
John P Smith Co The 423-33 Chapel St — New Haven

Wire Drawing Dies
Waterbury Wire Die Co The — Waterbury

Wire Forming Machinery
Torrington Manufacturing Company The — Torrington

Wire Formings
G E Prentice Mfg Co The — Kensington
Master Engineering Company — West Cheshire
North & Judd Manufacturing Co — New Britain
Peck Spring Co — Plainville
Turner & Seymour Manufacturing Co The — Torrington
Verplex Company The — Essex

Wire Forms
Banner Spring Corporation — Hartford
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Bristol Spring Manufacturing Co — Plainville
Central Spring Co (short run orders) — Terryville
Colonial Spring Corporation The — Hartford
Connecticut Spring Corporation The — Hartford
Foursome Manufacturing Co — Bristol
Gemco Manufacturing Co Inc — Southington
Stanley Humason Inc — Forestville
New England Spring Mfg Co — Unionville
Peck Spring Co — Plainville
Templeman Co D R — Plainville
Terryville Manufacturing Co — Terryville
Wire Form Inc — Milldale

Wire Goods
American Buckle Co The (overall trimmings) — West Haven
Patent Button Co The — Waterbury
Scovill Manufacturing Company (To Order) — Waterbury 91

Wire Partitions
Hartford Wire Works Co The — Hartford
John P Smith Co The 423-33 Chapel St — New Haven

Wire Products
Stanley Humason Inc — Forestville
Peck Spring Co — Plainville
Plume & Atwood Mfg Co The (to order) — Thomaston

Wire Reels
Mettler Machine Tool, Inc. — New Haven
A H Nilson Mach Co The — Bridgeport

Wire Rings
American Buckle Co The (pan handles and tinners' trimmings) — West Haven
Stanley Humason Inc — Forestville
Peck Spring Co — Plainville
Templeman Co D R — Plainville

Wire—Specialties
Andrew B Hendryx Co The — New Haven

Wire Straightening and Cutting Machinery
Mettler Machine Tool, Inc. — New Haven

Wiring Devices
Harvey Hubbell Inc — Bridgeport

Wood Scrapers
Fletcher-Terry Co The — Forestville

Woodwork
C H Dresser & Sons Inc (Mfg all kinds of woodwork) — Hartford
Hartford Builders Finish Co — Hartford

Woven Felts—Wool
Chas W House & Sons Inc (Mills & Cutting Plant) — Unionville

Yarns
Aldon Spinning Mills Corporation The (fine-woolen and specialty) — Talcottville
Ensign-Bickford Co The (jute-carpet) — Simsbury
Hartford Spinning Incorporated (Woolen, knitting and weaving yarns) — Unionville

Zinc
Platt Bros & Co The (ribbon, strip and wire) P O Box 1030 — Waterbury

Zinc Castings
Newton-New Haven Co Inc — 688 Third Ave West Haven

Zinc Die Castings
Mt Vernon Die Casting Corporation — Stamford (Advt.)

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Photo above shows installation of Arnot Portable Partitionettes by Barney's at Grandahl Tool & Machine Co., W. Hartford. Here's the quick, inexpensive way to privacy and efficiency within any given office space area. Ask Barney's to show you photos of installations made for many of Connecticut's leading companies.

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Please give our engineers the information requested below so they may send the most suitable of our lubricants.

Parts lubricated .....
Material ..... Surface finish .....
End Product .....
Operation .....
No. RPM or cycles .....
Pressure ..... Temperature .....
Are abrasives present? ..... Chemicals? .....
Does lubricant contact rubber? ..... Water? .....
Present lubricant .....
(a) Grease ..... (b) Oil .....
(c) Powder ..... (d) Bonded Coating .....
How applied? ..... How often? .....
Improvements desired .....

THE ALPHA MOLYKOTE CORP.
65 HARVARD AVE., STAMFORD, CONN.
Fireside 8-3724

BOOK REVIEWS

♦ **THE UNIVERSAL PLAN OF JOB EVALUATION — INSTALLATION MANUAL,** by P. A. Belanger. Published by the author. P. O. Box 63, York, Pa. Copyrighted 1956.

Enough books and articles on job evaluation have been written to fill a library, but none of them included one simplified overall plan until Mr. Belanger prepared his manual. The writer gives the structural details of a job evaluation plan, which, he declares, will rate jobs and may be applied to any type of business or to any division of a business.

The manual is divided into two sections. Part one presents a "universal scale" which, the author states, can be used to rate both manual and non-manual or staff jobs.

Six factors are common to evaluate both shop and staff jobs. Five other factors are interchangeable. These factors are linked mathematically since their first-degree values are weighted in terms of the usual 100 per cent used in most point scales. The mathematical linkage is what makes this plan unique.

Part two discusses merit rating of employees. A combination of job evaluation and merit rating will supply the answer to the important question: Does a particular employee's contribution to the common effort entitle him to the minimum rate for his job, to the maximum, or to a step-rate in between?

The last page of the manual suggests a simple experiment to prove the plan without disturbing the company's present set-up. Forms and charts are also available, the design of which would cost a company many times the quoted price.

Phil Belanger is currently associated with a group of consultants, where he puts into practical effect the principles outlined in his manual for fitting square pegs into square holes. The manual is an outgrowth of his fifteen years of experience in industrial and methods engineering, executive and technical placement and as outside consultant to industry in dealing with wage and salary administration and personnel placement problems.

The price for the first copy of this manual to any company is $25.00 additional copies for installation purposes at $10.00 each to the same company. For a limited time only copies can be obtained by members of the Connecticut Manufacturers Association at the price of $10.00.

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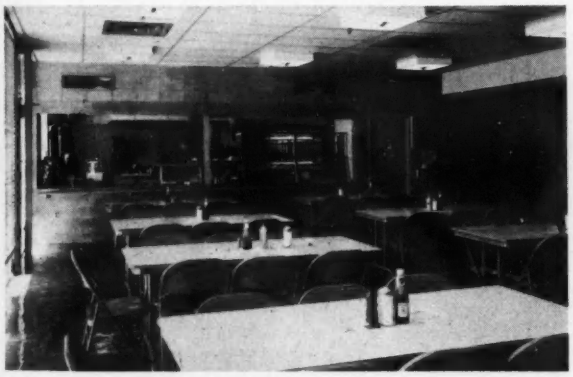
Detail of Gas-fired heat treating room.

GAS DOES A BIG JOB IN SMYTH'S NEW PLANT!

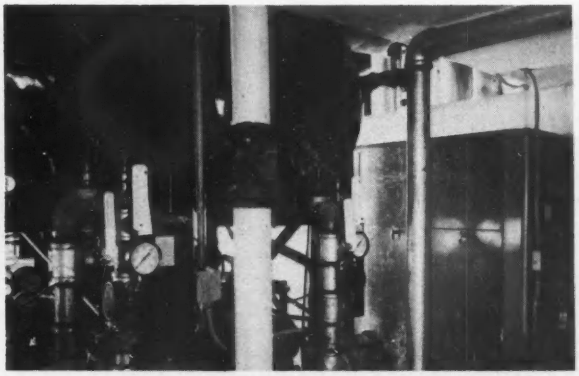
Like many another Connecticut manufacturer, The Smyth Manufacturing Company is known around the world. Smyth's specialty is machinery for book binding.

In Smyth's new Bloomfield plant, Gas is used for heat treating . . . heating factory and offices . . . air conditioning offices . . . automatic hot water heating . . . fast, economical cooking.

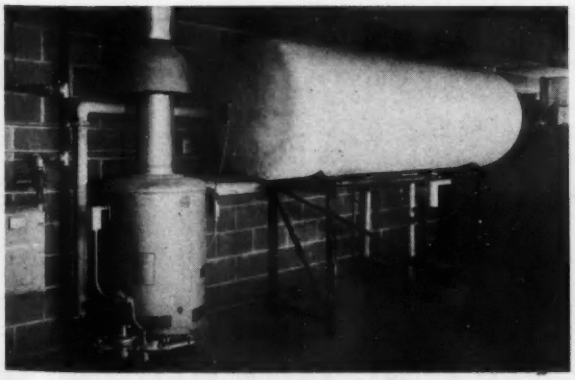
Throughout Connecticut, manufacturers are finding more and more uses for clean, dependable, modern Gas. Ask your Gas Company's Commercial or Industrial specialist about the many ways that Gas can serve you.



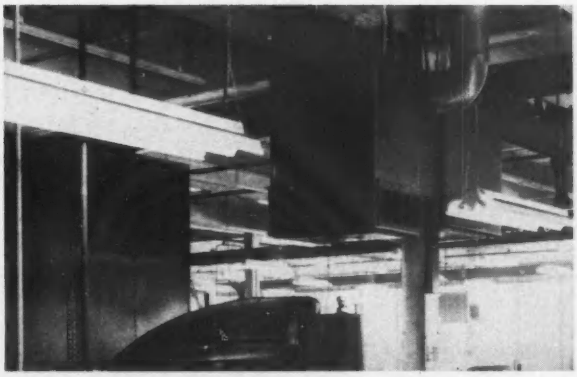
Gas kitchen serves 150 employees in Smyth's modern cafeteria.



Two 25-ton Servel Gas Water Chillers cool air in summertime. On right is Janitrol boiler.



Burkay Automatic Gas Water Heater provides abundant supply of hot water.



One of 28 space saving Gas-fired Janitrol unit heaters throughout plant.

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